

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name \_\_\_\_\_ Examiner # \_\_\_\_\_ Date: \_\_\_\_\_  
 An Unit \_\_\_\_\_ Phone Number 30 \_\_\_\_\_ Serial Number \_\_\_\_\_  
 Mail Box and Bldg Room Location \_\_\_\_\_ Results Format Preferred (circle) PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
 Please provide a detailed statement of the search topic and describe as specifically as possible the subject matter to be searched. Include the electron species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date \_\_\_\_\_

*\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number*

## STAFF USE ONLY

Searcher P. Scherzberg  
 Searcher Phone # 305-4292  
 Searcher Location RM 6A63  
 Date 10/14  
 Searcher Priority Review Time 13  
 Searcher Priority Time 33

## Type of Search

NA Sequence # 11  
 AA Sequence # \_\_\_\_\_  
 Structure # \_\_\_\_\_  
 Biographic \_\_\_\_\_  
 Citation \_\_\_\_\_  
 Full text \_\_\_\_\_  
 Patent Family \_\_\_\_\_  
 Other \_\_\_\_\_

## Vendors and cost where applicable

STN \_\_\_\_\_  
 Dialog \_\_\_\_\_  
 Olexa Tech \_\_\_\_\_  
 Sequence Systems CompuLink  
 MATA Images \_\_\_\_\_  
 Other \_\_\_\_\_

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 9, 2003, 15:55:36 ; Search time 1779 Seconds  
(without alignments)  
4.094 Million cell updates/sec

Title: us-09-856-679-31

Perfect score: 2434

Sequence: 1 caagatccgagtggtatat.....cacaccagagaaaaaaaaa 2434

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 0.0

Searched: 10 seqs, 1496173 residues

Total number of hits satisfying chosen parameters: 20

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 10 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2312.4	95.0	128473	2	AC004241
2	2312.4	95.0	156525	6	AC004241
3	2312.4	95.0	157404	4	AC004241
4	2312.4	95.0	157699	9	AC004241
5	2312.4	95.0	158111	3	AC004241
6	2312.4	95.0	158766	10	AC004241
7	2312.4	95.0	158784	5	AC004241
8	2299.8	94.5	155147	1	AC004241
9	1077.81	44.3	148875	8	AC004241
10	577.397	23.7	116389	7	AC004241

#### ALIGNMENTS

RESULT 1  
AC004241  
LOCUS  
DEFINITION Homo sapiens 12q13.1 PAC RPC13-197B17 (Roswell Park Cancer Institute Human PAC library) complete sequence.  
AC004241  
ACCESSION AC004241  
VERSION AC004241  
KEYWORDS HTG.

SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
REFERENCE 1 (bases 1 to 128473)  
AUTHORS Muzny, D., Aronson, A.D., Adams, C., Bunac, C., Carvelli, K., Cheng, J., Chacko, J., Chen, J., Ding, Y., Dugan, S., Durbin, J., Forcum, J., Ganesh, R., Garcia, C., Goodman, M., Gorrell, J.H., Haywood, M., Hernandez, J., Jackson, L., Jin, S., Kampal, R., Karpathy, S., Kovar, C., Lau, S., Leal, B., Lee, E., Li, Y., Lichtarge, O., Liu, W., Logan, O., Lu, J., Ly, T., Marondel, I., Martinez, C., Merscher, S., Montgomery, K., Oswal, G., Perez, L., Rashid, N.D., Renault, B., Rowland, K., Savage, L., Scherer, S.E., Shen, H., Simon, M., Stovall, K., Timms, K.M., Todd, J., Vo, O., Williamson, A., Worley, K.C., Yu, W., Kucherlapati, R., Nelson, D. and Gibbs, R.A.  
TITLE Direct Submission  
JOURNAL Unpublished  
REFERENCE 2 (bases 1 to 128473)  
AUTHORS Worley, K.C.  
TITLE Direct Submission  
JOURNAL Submitted (28-FEB-1998) Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA  
REFERENCE 3 (bases 1 to 128473)  
AUTHORS Worley, K.C.  
TITLE Direct Submission  
JOURNAL Submitted (01-JUL-1998) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA  
COMMENT On Jul 1, 1998 this sequence version replaced gl:3108007. Sequencing is completed to a minimum standard of double strand coverage with a minimum of 2 clones and 2 reads with no ambiguities or 2 chemistries with a minimum of 2 clones and 3 reads with no ambiguities. If the sequence quality does not meet this standard, it will be indicated in the annotation.  
The repeat regions shown were identified using RepeatMasker by Adrian Smit.  
Sequence similarities were identified using Powerblast by Jinghui Zhang.  
Exon/Intron boundaries of identified genes were chosen if there were canonical splice junctions that maintained sequence continuity across the splice junctions.  
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Best Local Similarity 16.2%; Pred. No. 5.5e-126;
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Qy	1570	-----	1569
Db	20251	CCCATCCAGCTGGATCTCTGCAGAGGCTGGCTGGCTGTTGTCTGGGGCACTGTAGGG	20310
Qy	1570	-----	1582
Db	20311	GTGGCTGCTTCCCTTACCCTGAGGGTCTCTGGGTCTTCTGTCTCACAGCTCTCAAGAGCAG	20370
Qy	1583	AAGAACTCAATCTCTTCTTCCGTCATGTTGGCTCAGCAACTCGGCCATCAGCCGC	1642
Db	20371	AAGAACTCAATCTCTTCTTCCGTCATGTTGGCTCAGCAACTCGGCCATCAGCCGC	20430

QY	1643	CTAGCCACACCTGGG-----	1658	Db	21511	TTCTTCCCTAGGATCCCTCATGGAACACACCGGGTATACCGACTGGCCCTGCCAAGCTC	21570
Db	20431	CTAGCCACACCTGGGAGGTAAGTGTGGTCTGGAGGGCCCCCTCTGAGGTGAGGCCTCA	20490	QY	1760	TCCCTCCTGTGATCCCTTTCATGCCCTTCTTCTCAA-----	1797
QY	1659	-----	1658	Db	21571	TCCCTCCTGTGATCCCTTTCATGCCCTTCTTCTCAAAGGTAAACAGGGCTTCCTGGCCTC	21630
Db	20491	GGCCCTCTGGGAGTGCCTGGATGGGGCTGGGGCTCCCCCAGACAGCGCTCATCTGGCT	20550	QY	1798	-----	1797
QY	1659	-----AGCGGCTGGCTCACAAAGTCCGGAAGCTGTACTTCCGCCCTCGAGAGGCTGC	1709	Db	21631	CATCCCTCCATTCCCCCTTCTCTGCTCCATCCCCCATTTCCCCCTTCTCTGCTCCATCC	21690
Db	20551	CCTTTTCACAGGGCTGCTCACAAAGTCCGGAAGCTGTACTTCCGCCCTCGAGAGGCTGC	20610	QY	1798	-----	1797
QY	1710	T-----	1710	Db	21691	CCCATCCCATGCCTATCTGTGTGTGCACCCACCTCTGTTGGAGAGATTATACCTCAAGTGC	21750
Db	20611	TGGTGAGTGTCTCACCCCTCGCCGGCTGGCTGTGCTAGGATCAGCTGGGCTCGGCCCTGC	20670	QY	1798	-----	1797
QY	1711	-----	1710	Db	21751	TGATGCCCTCAGGGAGTGCAGAGATGAATTAGAGTTCTTTAGACTGGAGAATGAAGACAT	21810
Db	20671	CTCCAGACACCTCACTTTGGCTTCCCTGACGCCCTCTACTCGTCTTTGTCACTTT	20730	QY	1798	-----	1797
QY	1711	-----	1710	Db	21811	CCAGACAATACGGGCTGCCCTCAGGGCTTAAGAGATACAAGGAATGCTGCTGGGGCTT	21870
Db	20731	CAGGCTTCCCAACCTCGGCCAGGGCTAGCTCCAGCCTGTGAGTTTGGGAGCTGGCTG	20790	QY	1798	-----	1797
QY	1711	-----	1710	Db	21871	GGAGGGCAGAGCAGGGGCTCTATGGGTGAGTAGGCCCAAGGAGCGCTTATGCC	21930
Db	20791	AGGAAGGGTGTTCAGCACTAGGATAGGGTTGACGTGTCATCTGCCCTCAGTGTGT	20850	QY	1798	-----	1797
QY	1711	-----	1710	Db	21931	TTCACTTTTCTGGCTACAGAGGGCAGAGTTTGGGGACTATGAACAACCCATCT	21990
Db	20851	GCATGGGGCAGGAGATCCTGTGTGAAGACTGGGCTGGAGCATGGGTGTCCAGTCTCG	20910	QY	1798	-----AGACATGACCTTCATTCATGAGGGAACACACACACTAGTGGAGAATCTCATCAA	1851
QY	1711	-----	1710	Db	21991	CTTTGCACACATGACCTTCATTCATGAGGGAACACACACACTAGTGGAGAATCTCATCAA	22050
Db	20911	GGGTCTGAGTCCCAGGCAGTGTCCAGGGCTCCAGAGCCNAGGGCTTGGCATGGAGGG	20970	QY	1852	CTTTGAGAAGAT-----	1863
QY	1711	-----	1710	Db	22051	CTTTGAGAAGATGGTGTAGTCCAGGAGAGCAGGCAATTCACATAAGTTGGAGGA	22110
Db	20971	CCTGTGTGCACAGGGCTGTCTGCCCTCAGGAACCTCGAGGGCTTTCGGGGTAGACC	21030	QY	1864	-----	1863
QY	1711	-----	1710	Db	22111	CATGACTGTGSCCTGGGAAGGGCAGGCTTGGAGGCAGCTTAAACATTGTTATGAATAAT	22170
Db	21031	AGTAGAAGGGCAGGATAGAGTTGGGGTGGAACTCCACCTCCAGGAACCTTTTGAGG	21090	QY	1864	-----	1863
QY	1711	-----	1710	Db	22171	ATGAGATGAATACTTACTGTGTATAAGCCCCCTTATTCACCTGCACTGGGTCTGC	22230
Db	21091	ATTTTGAGGGTTTCACTATTCTGGAGAGACAGAGAAGAGGTACTTCATCAGCATAGC	21150	QY	1864	-----	1863
QY	1711	-----	1710	Db	22231	CAGGTGCCAGCCTCAGAGCTCTCACCATTCACAGAGAGCCCTTCCAGCCCTCTTCTCTC	22290
Db	21151	CTGGCAGCTCTTTAGAGAAAAATCCACCTCGTGGGCTCAAGGGATTCAAAGGAGTTTACT	21210	QY	1864	-----	1863
QY	1711	-----	1710	Db	22291	TAAAGCTTTCTCTCCTGGCCTGTGCCCTTCTGTCTCTGTCTGTCTGCCCTGGGCTCTG	22350
Db	21211	CTGCAGAGAGAGAGGGAGGACACAGAAAGAGACAGGGATAGAAAGGACAGAGAGGT	21270	QY	1864	-----	1863
QY	1711	-----	1710	Db	22351	GGTGTGTGAGGGGAAGTACACATGATGCCACATAACCAAGGATCTTACAGTCCCTGATC	22410
Db	21271	GNACGTGACAGACTTTTCCAGAAACCTGGGGCCCCCTGTGACTAACTGCTGTGAATTTTC	21330	QY	1864	-----	1863
QY	1711	-----	1710	Db	22411	CTTGGTTCAGAGGAGCTTGGCTGCCCTGCTGTCACAGGCGCAGGACAGGGTTTCTCCC	22470
Db	21331	TCAGTGTCTAATGGGAGTTGGAAGCCCGTGTTCGCCCTGTGACAGAGCCTGGGTGAGACC	21390	QY	1864	-----GAGAATGATGCCACAGAGCCGCGCGGA	1889
QY	1711	-----	1710	Db	22471	TCAGSCAAGAGCTTATATGCCCGGGTGTGTGTCGCAGAGAATGATGGCCAGAGCCGCGGA	22530
Db	21391	TGGGCTGAGGAGAGGCTGAGTTGGGGCTCTGCACCTGCTGTGGATGGGCATGTGGCC	21450	QY	1890	TGCTGCACCACTGCGGAAGCCACAACCT-----	1918
QY	1711	-----	1710	Db	22531	TGCTGCACCACTGCGGAAGCCACAACCTTGTGTGAGAGGGCGGTCCCGGGGTGGGAGGT	22590
Db	21451	CCTCCTTGTGGGTGTGTGGTGTATGGTGTGTGCAACCCCTCAGTGTGGC	21510	QY	1919	-----	1918
QY	1711	-----GGATCCCTCATGGAACACCGGGTATACCGACTGGCCCTGCCAAGCTC	1759				



QY	2424	-----	2423
Db	24811	AGTTCCCTTGCCGTGGGTGGGACACAGGAGAAGCAGCAATCTGGAATGAGCAAT	24870
QY	2424	-----	2423
Db	24871	CAGGACAGGAGCTCAAGCCTGGGTGAGTCAAGGATCCGGGGCTTTCTTTTCATCCAAC	24930
QY	2424	-----	2423
Db	24931	CCATTGTCTGCTGGTGTCTCGCAAAAGCCAGCCAGCCAGCGGTGGCCCTTCACCGTTCT	24990
QY	2424	-----	2423
Db	24991	TCAGACTCTAGGGTGAGCCAGCCAGCCAGCCAGCCAGCAACAGAAACCAAGTGCCACGGGGCCG	25050
QY	2424	-----	2423
Db	25051	GTGTCCTCCACCAGCATTTCTCTCTGTGTCACATCTACGTCTCTGATGGGACTTCTCCCTC	25110
QY	2424	-----	2423
Db	25111	CTCCTTGACCATCAGCTTTACAGTCCAGACCACCCTGCAGCCACCCGGTGGTCTCCAG	25170
QY	2424	-----	2423
Db	25171	CTGCCCAGTCTCGGGCAGGATGGCTTTTGAGCCTGTTGGGAGAGACCTTGCCAGGAGAA	25230
QY	2424	-----	2423
Db	25231	TGGTGCCAGGCGAGGCAAGGACACAGACTCTGGGAGCTAGAGAGTTGGGGCCAGG	25290
QY	2424	-----	2423
Db	25291	GGGCCAGCCACTCCACAGGACAGGAGGCCCAAAAGCGGGAAGGCTCCATGTACGG	25350
QY	2424	-----	2423
Db	25351	TGGCCCATGCTGGGAGTTTGCTGCTCTCTCTCTGCTGACTGCCCAAGCGTGGGTG	25410
QY	2424	-----	2423
Db	25411	GTGTGGGCGAGGCGCATCTCTGGTGTTCCTAGCAGCCAGGCTGTGTCAGGGGCTC	25470
QY	2424	-----	2423
Db	25471	CCATTTGTCTCAGCTGCAGAAGGAGTGTTGGCCCTAGATCAGTCCCTTTAAAAAGCCTCTGT	25530
QY	2424	-----	2423
Db	25531	AGAGAAGGTGTGCAGAAAGGAGTGTTGGCCCTAGATCAGTCCCTTTAAAAAGCCTCTGT	25590
QY	2424	-----	2423
Db	25591	ACCTGAAAGGAGTCAAGCAGAGAGGAATGCTGCGTGTGTCTCTACCGGGCAGGACAG	25650
QY	2424	-----	2423
Db	25651	GACAGAGGAGGTCAATTGTTACACACACATCCCCCCTCCTTCTCTCTCTCCCTCCACTT	25710
QY	2424	-----	2423
Db	25711	CCCTGTGAAGCCTGAGGCAGGCTGTGGCCAGGCTCAGGCCCTGACTGTGGGTTACACAC	25770
QY	2424	-----	2423
Db	25771	CAGGAGGGCCACGCCCTCCCAACAGCGGGGTGGAGTGGTCACTGAGGCCAGCACCCCTCT	25830
QY	2424	-----	2423
Db	25831	GCTGCTCAGCATCTCCCGCTGGAGCCAGCTGTCCCTCTCTCTCAGGCTCCATCCGAAC	25890
QY	2424	-----	2423

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Db	25891	AAAAGGAAGCAGAGCCTGAGATCGGCACCCCATCCCTCCACTCAGCACTGAGTTAG	25950
QY	2424	-----	2423
Db	25951	AGCTGGGTGGGGCAGTGTCTGCCCTTCACACGCTGCCTTATGGCTTCTGTGTCTCCAACAG	26010
QY	2424	-----	2423
Db	26011	CCCTCAGCCTCTGGCTGCTCTCTTCCCAATAGTCACAAGATTTTACCATGATAATAATAG	26070
QY	2424	-----	2423
Db	26071	GTTAAGACTTGAATGGTGTCTTTCATCTCTTTCATCTCTACCCCTCTCAGCTTACGTTA	26130
QY	2424	-----	2423
Db	26131	TTTTTATCCTGATGACAGAAATAGGTACTACAGGTATTTTTTACTCTGGTTTTTACAGTCAA	26190
QY	2424	-----	2423
Db	26191	GAAACTGAGGCACAGGCAGGTTTGCCCAAGGTCACATAACTGCTTTAATAGCAGGGTAGAC	26250
QY	2424	-----	2423
Db	26251	AGGTGAAGTAACTGGATGTATCAGCCATGCCCTTCCCATGCCCCCGGCACCTCCCCA	26310
QY	2424	-----	2423
Db	26311	TGACAGCTCTCTGAATCCCAACATTTTATCTTTTGCAGGATTTAGACCAAGCATATAA	26370
QY	2424	-----	2423
Db	26371	TTCTCTTTTCCCTCTCTCCATTCCACATCTCTTTTATTTTTCAGCTACTTACTATAGGCT	26430
QY	2424	-----	2423
Db	26431	TGTAGGGCTCTGTGAACAAGACAAAGCCAGGTGCTGTGGCTGATGCTGTATAATCCCAA	26490
QY	2424	-----	2423
Db	26491	TGCTTTGGAGGCTAGGCATTTGAGACCAACCTGGGTAAACAAGCAAGACCCGGTCTCTA	26550
QY	2424	-----	2423
Db	26551	TAAAAATAAAAATTTACCCGGGTATGGTGTGCACCTGTAGTCTAGTACTTGGGAG	26610
QY	2424	-----	2423
Db	26611	GTTGAAGTGGGGGATCACTTGAGCCAGGAGTTCGAGGTTACAGTGAGCTATAACTGCA	26670
QY	2424	-----	2423
Db	26671	CTCGTCTCTTTTGGTTTGACAGAGAAAGACTCTGTCTCTCTAAAAAGAAAAAACCAAGAC	26730
QY	2424	-----	2423
Db	26731	TGGTAGTTCTGGCCCTCATGGGTCAATCATCCAGCTAGGCAGCAAGCACTATCAGTAAC	26790
QY	2424	-----	2423
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QY	2424	-----	2423
Db	26851	CTTACCCCAAGCATTTAAGGCCCAGAGCTGCTCCCGTTGGAGCATAGGTTTCATAGCCCCAG	26910
QY	2424	-----	2423
Db	26911	CTCCCCGAGCCCTGCACAGCTCTGTCCCTTGAGTGGGGATGCTCTCCACTCATCACTG	26970
QY	2424	-----	2423

Db	26971	GCACAAACCACCTGAGTAGCAGCAGGTATGGTGGCTGGTGGCTGCAGCAAAATCTGACC	27030
Qy	2424	-----	2423
Db	27031	TGGCAGTTGCTCAACCCCTTCTCCCTTCCACAGACCTACAGGCCAGAAAGTACATGT	27090
Qy	2424	-----	2423
Db	27091	CTTTCCAAAATGTCTCTAGTAGCCCAACCCACACTCAGTATTGAGCTCCTCTACATCT	27150
Qy	2424	-----	2423
Db	27151	GCCAGGCCATGGATCTATACTAAGTAAGTGTCCACCCAGCCCTGTCCAGTTGTGCAGCC	27210
Qy	2424	-----	2423
Db	27211	AATTCAGGCACCTCCTCTCAGATTCTTGGACTCTTCAAGACCTGAGCTGTAGCCTTCCTG	27270
Qy	2424	-----	2423
Db	27271	CAACACAGTCTGTGCATCTGAGGTTGAAGGGCTTGCAGGCCAGGGCAGGGTGACTG	27330
Qy	2424	-----	2423
Db	27331	CCGTCCTCCAGTATGATAAACTGGATCATCTTGAGAACCGAGTCTGACTCAGCTG	27390
Qy	2424	-----	2423
Db	27391	CACTTAGAAGAGTCTTCTCCATGCCATGCCCTGGGGGCTTCTTGGAGCAGGTGCTCGATG	27450
Qy	2424	-----	2423
Db	27451	GGCTCAGGGAGGATGCTCTGTGTGTAGTGTAGTAACACACAGAGGAGGTGTGTACTCC	27510
Qy	2424	-----	2423
Db	27511	CAGAAAGACAGAGGTTAAGCTCACAGTTTGGACCCACTTTTGTGTAGGAGTGTG	27570
Qy	2424	-----	2423
Db	27571	GGATTCTGGTTGTCATGTGTGTGGACTGTGACCAAGTGTGACCCCTGGACCAGGGAGC	27630
Qy	2424	-----	2423
Db	27631	TGGATCTCAGGCTTCACCCTGACTCTGCTGCTTGTCTTTGGCCCTTGGAGAGCACT	27690
Qy	2424	-----	2423
Db	27691	TGGATCTGGTTTCTCACTGGAGTGAGTTGTAGGCACTAGAGCTGTTTTGGACTGCTG	27750
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Db	27751	AATGGAGGGCTGCTACTGCTTCTTGGCACTTAGCGGATCTAGCTAGCAGAGGGGTAG	27810
Qy	2424	-----	2423
Db	27811	AGACAGGTGCCTTTTAGGGGGCCATGACAACAGGATATTTAAGCTTACTTGACCACC	27870
Qy	2424	-----	2423
Db	27871	CAGAAAGTGCCCTGTCTCCACAGAGTATAAGGCAGCATAGGTGGATCCCATAGTGGCA	27930
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Qy	2424	-----	2423
Db	28171	CTGTTTTATTGGAGGGTCTCTCAGAGCTCCCTACCCTGAGTGTGTGCTCCTGCTACCTG	28230
Qy	2424	-----	2423
Db	28231	CTTGAAGTCATGACTGCTTGCCCTTACTCTTTTGAAGTCTAGTGTGTCAGTAGAAGGCC	28290
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Db	28291	TGTTATGTAGATACATAAGTTGGAGAGTTCTAATGCCCAATTTAGATTTCTAAATTAAT	28350
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Db	28471	TGTTACAGGGTCTCTGGACACAGGCGATCCAGGTTGGGAATCAGAGGGAGAGATAGGTG	28530
Qy	2424	-----	2423
Db	28531	GCCAGTTTCAACCTCTCAGCGTTGCTGGGCTGAGCCCTGCAGGAGCAACCTGTGTGCTG	28590
Qy	2424	-----	2423
Db	28591	GAGGAGAGCTTCACATGCAGCTGGACTCTGTGGTGGCCACGGAGAAGTCAAGATCT	28650
Qy	2424	-----	2423
Db	28651	CTGTTTCTCTTCTCCGGTCTTGACTTTGCACCAGCAGCTGTGGATTATCTCATCAAT	28710
Qy	2424	-----	2423
Db	28711	AGAGCACAAAGCTTCAGGAGCTGAGCCATGGAGTTGCTGCTTAGCTTAGCCCCATTCG	28770
Qy	2424	-----	2423
Db	28771	AACTTTTAGCTTCCCCAGAGCAAAAGCACTGTTCCTAAGCTGCAGGCCACAGCCCCAGA	28830
Qy	2424	-----	2423
Db	28831	AAACAGGTGGTTCCCTTTTGGCACCACCAACAGGTGAGTTAGACAGTCCGACTCATCAAGG	28890
Qy	2424	-----	2423
Db	28891	GCCATCCCAAGACTTGAAAAATACCAGGGTGCACGTTTTTTTAAATGAAAAATATTATCTT	28950
Qy	2424	-----	2423
Db	28951	TGGAATTTAAAAATAAATATTACATTTATAGAGACTGTAGATTAGAGGAGCTGCCACCTTC	29010
Qy	2424	-----	2423
Db	29011	TCACTATTGTCATTTTCAGAACTTTTTTTTTTTTTTTTTTTTTTTTGTGAGACGGAGTCTGCTCTGC	29070
Qy	2424	-----	2423
Db	29071	GCCCAGCCGAGTGCAGTGGCGGATCTCAGCTCACTGAAAGCTCCACCTCCCGGGTTC	29130
Qy	2424	-----	2423
Db	29131	ATGCCATTTCTCTGCTCAGTCTCCTGAGTAGTGGGTCTACAGGCGCCTGCCACACGC	29190

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Db 29191 CCAGCTAGTTTTTGTATTTTAGTAGAGTTTCACCATGTTAGCCAGGATGGTCTC 29250
QY 2424 ----- 2423
Db 29251 AATCTCTGACCTCGTATCTGCCCTGGCCTCCCAAAGTGTGGGATTACAGGCAT 29310
QY 2424 ----- 2423
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QY 2424 ----- 2423
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QY 2424 ----- 2423
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QY 2424 ----- 2423
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QY 2424 ----- 2423
Db 29551 CATGTTGGCAGCGGGTCTTGAACCTCCTGACCTCAGGTGATCTGCCCTGCGCCTCC 29610
QY 2424 ----- 2423
Db 29611 CAAAGTGTGGGATTACAGGCGTAAGCCAGCCGCCAGCCACAGAACATTGTTAACATT 29670
QY 2424 ----- 2423
Db 29671 CATTTTTCAGGCTTTTCTTAACCATCTATCTAAATTACGCCCTTCGTGGGCCCTATTTT 29730
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Db 29731 TTTTNTAACAAACATCTGSCCTTATTTATTAGGCACTGTTCTTAAAGCTCTCAAGG 29790
QY 2424 ----- 2423
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QY 2424 ----- 2423
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QY 2424 ----- 2423
Db 29911 TGGGTGGCAGAGCTGGGATTCAAACCCAGGCAGCTTGGCTTTAGAATCAACAGTCTGAGC 29970
QY 2424 ----- 2423
Db 29971 CTCATGCTCTGCTGCTGCCCCAGATCTGGCTGTAGACGCTCTTATTTATGCTTTCTTCTCT 30030
QY 2424 ----- 2423
Db 30031 CCAGCTGTGAGCTGCTCACCTTTATCCACTTTGCTTATCACAGTGTCTGGCACACAGT 30090
QY 2424 ----- 2423
Db 30091 GGCATTCAAGTCTATTGTCTCAGGTGAATGAAGGAATGAATGAGAAAGGGGAATTTCCC 30150
QY 2424 ----- 2423
Db 30151 ATAACCAACTACCTTAGCACAATAATTATGTAATTTTACAGATTTGTAGATTTCAAAAT 30210
QY 2424 ----- 2423
Db 30211 CATGGTCAGGACCGCTCCTGCCAGTCTGTGTCTGTCATCATCTTTTGAGGCCAGAA 30270
QY 2424 ----- 2423
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QY 2424 ----- 2423
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QY 2424 ----- 2423
Db 30451 ATTGTGCTCTAGACCTCTTTTAAAGCCAGTGGAGTTTGAGGACATGCAATAGTAAATTT 30510
QY 2424 ----- 2423
Db 30511 ATAATCATTTACTGGCAGTGTAAACAAACATTTAGCACAGCTGGCAAGAGTGTAGGCAG 30570
QY 2424 ----- 2423
Db 30571 ATGGTTCTTTGGGATCTTAAAAAAGCAGGATACAGCTGAGATCTCTGTGACACTGTGGA 30630
QY 2424 ----- 2423
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QY 2424 ----- 2423
Db 30691 AAGGTGGCTTGGGGTTTAGTGCTCCTCTAAATTTTCCATTAGGCCCCAACAAATACAA 30750
QY 2424 -----AAAAA 2434
| | | | | | | | | |
Db 30751 TATAGCTAAAAA 30768
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## RESULT 2

## AC004241

## LOCUS

## DEFINITION

## ACCESSION

## VERSION

## KEYWORDS

## SOURCE

## ORGANISM

## REFERENCE

## AUTHORS

## TITLE

## JOURNAL

## REFERENCE

## AUTHORS

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* 1		52081: contig of 52081 bp in length	
*	52082	52101: gap of unknown length	
*	52102	92374: contig of 40273 bp in length	
*	92375	92394: gap of unknown length	
*	92395	132274: contig of 39880 bp in length	
*	132275	132294: gap of unknown length	
*	132295	151994: contig of 19700 bp in length	
*	151995	152014: gap of unknown length	
*	152015	153710: contig of 1696 bp in length	
*	153711	153730: gap of unknown length	
*	153731	154435: contig of 705 bp in length	
*	154436	154455: gap of unknown length	
*	154456	155157: contig of 702 bp in length	
*	155158	155177: gap of unknown length	
*	155178	155862: contig of 685 bp in length	
*	155863	155882: gap of unknown length	
*	155883	155525: contig of 643 bp in length.	
FEATURES		Location/Qualifiers	
source		1..156525	
		/organism="Homo sapiens"	
		/mol_type="genomic DNA"	
		/db_xref="taxon:9606"	
BASE COUNT		45450 a 35421 c 34266 g 41224 t 164 others	
Query Match		95.0%; Score 2312.4; DB 6; Length 156525;	
Best Local Similarity		16.2%; Pred. No. 4.5e-126;	
Matches 2433;		Conservative 0; Mismatches 1; Indels 12584; Gaps 12;	
Qy	1	CAAGATCCGATGGGTATATGGAGTGTGAGGTATGGATCATTCATGTGAAGATGCAG 60	
Db	52189	CAAGGATCCGATGGGTATATGGAGTGTGAGGTATGGATCATTCATGTGAAGATGCAG 52248	
Qy	61	GGGTTTTTGAGACACAGGGTTTGAAGAGAGATTGAGCAGCTGCTGGTGGTGGGAATCA 120	
Db	52249	GGGTTTTTGAGACACAGGGTTTGAAGAGAGATTGAGCAGCTGCTGGTGGTGGGAATCA 52308	
Qy	121	CCCATGTGCAGGGACACATGAGCAGTAAAGAACTCTGCAGGGGTCCTCGAGATTGGA 180	
Db	52309	CCCATGTGCAGGGACACATGAGCAGTAAAGAACTCTGCAGGGGTCCTCGAGATTGGA 52368	
Qy	181	AATGTAGGAGAGCAATGATTGAGTCCGAACTGGAGATCTGCTATACGAGAGCT 240	
Db	52369	AATGTAGGAGAGCAATGATTGAGTCCGAACTGGAGATCTGCTATACGAGAGCT 52428	
Qy	241	GGGAGGAGGACAGATCAGTACAGAGTCGGAAGAAAGCAGGTTGGGAAGGGGAACCTG 300	
Db	52429	GGGAGGAGGACAGATCAGTACAGAGTCGGAAGAAAGCAGGTTGGGAAGGGGAACCTG 52488	
Qy	301	AGTCAGAGACTTGCCTGGCAGCGCTGCCCTGCCAGCAGAGCCCTGACAGTGGTTTCCA 360	
Db	52489	AGTCAGAGACTTGCCTGGCAGCGCTGCCCTGCCAGCAGAGCCCTGACAGTGGTTTCCA 52548	
Qy	361	TGAATGCATCCCTGCTGGGCTGGGACAGGGCCACTGACAGATCGGAGCACAGAA 420	
Db	52549	TGAATGCATCCCTGCTGGGCTGGGACAGGGCCACTGACAGATCGGAGCACAGAG 52608	
Qy	421	GGGAAAGGACAGAGGAGTCCAACTCTGCCAGTTAGCAGCTGTGGCTTTGGGCAT 480	
Db	52609	GGGAAAGGACAGAGGAGTCCAACTCTGCCAGTTAGCAGCTGTGGCTTTGGGCAT 52668	
Qy	481	GTTACTTAACCTCTCTGAGCCCTCATTTATTCATCCATAAAATGGAATAAAATAATAC 540	
Db	52669	GTTACTTAACCTCTCTGAGCCCTCATTTATTCATCCATAAAATGGAATAAAATAATAC 52728	
Qy	541	TTTTGTCAAGGGCGATTGTGAATATTTAGATCCTCAGATAATGCTGGCTGTAGCAA 600	
Db	52729	TTTTGTCAAGGGCGATTGTGAATATTTAGATCCTCAGATAATGCTGGCTGTAGCAA 52788	
Qy	601	ATGCTAGCTGGAGGAAAGGACAGAAACCAAAGTCAGCAGCTGAAGATTTTCATATT 660	
Db	52789	ATGCTAGCTGGAGGAAAGGACAGAAACCAAAGTCAGCAGCTGAAGATTTTCATATT 52848	
Qy	661	AGAACTGCTCTGGACCTATCTGGCAGATGCAGAAAGCACACACACGGAGGGGCATGGAT 720	

Db	52849	AGAACTGCTCTGGACCTATCTGGCAGATGCAGAAAGCACACACACGAGGGCATGGAT 52908	
Qy	721	TTGCCCGCCCTTAGACATGTTGCTCTCTCCCTGGATCCTTGGTCCAGGTGCTTACC 780	
Db	52909	TTGCCCGCCCTTAGACATGTTGCTCTCTCCCTGGATCCTTGGTCCAGGTGCTTACC 52968	
Qy	781	TGAGCTCAGGTGAATGTGGCAAGCAGAGCCCTCTGGTGGTGAATGCTGTGGCGCCC 840	
Db	52969	TGAGCTCAGGTGAATGTGGCAAGCAGAGCCCTCTGGTGGTGAATGCTGTGGCGCCC 53028	
Qy	841	GTGCTCTGTGTGACACAGGACCTCACAATCCCTCCCTCCACGGTCTCTCTCATGTCCT 900	
Db	53029	GTGCTCTGTGTGACACAGGACCTCACAATCCCTCCCTCCACGGTCTCTCTCATGTCCT 53088	
Qy	901	CCAGACCTTATTTTCTCTGTTCTCTCTCCAGGCGCCGGAACCTGCTGTGGCTGCC 960	
Db	53089	CCAGACCTTATTTTCTCTGTTCTCTCTCCAGGCGCCGGAACCTGCTGTGGCTGCC 53148	
Qy	961	CAACAGGACGAGCCCTCTCTGGCAGCAGCTGTGCCATCCAACTTGGGGATAA----- 1014	
Db	53149	CAACAGGACGAGCCCTCTCTGGCAGCAGCTGTGCCATCCAACTTGGGGATAAAGGTTG 53208	
Qy	1015	----- 1014	
Db	53209	GTGGTCTGTGCGGCTGGGCACAGCCGACATCTGCACCTGCTGCTCTGCTCTCTCTTG 53268	
Qy	1015	----- 1014	
Db	53269	TCCTGTCTGCTCACCTTGTGACCTCGGTGTGCTTGGGCCAAGGTGGCACGCTGTACTCT 53328	
Qy	1015	----- 1014	
Db	53329	CAGGGTCTGTGTTCCAGGCTGTGGGTAGATCTGCCTCCTACCTGCTCTCTTTTGTCTCA 53388	
Qy	1015	----- 1014	
Db	53389	GGGCTCCCCACCTGCAGCTCAGCCTCTTGGGGATCCTCCACCACTTACTGCAATAGCC 53448	
Qy	1015	----- 1014	
Db	53449	GCCTCTCCCTCTCTGGGTGGAGATCAGCAGCCCTTCCACAGCTCAGTCTGGTCTCCT 53508	
Qy	1015	-----AGTCCCTATGACATCTGCGGCGCAGACCACTCAGTGTGTGACCTCGAGCTGCTG 1070	
Db	53509	CTTCAGTCCCTATGACATCTGCGGCGCAGACCACTCAGTGTGTGACCTCGAGCTGCTG 53568	
Qy	1071	TGACAGCTCCGTGTGAGAGAGGTGATGGCAGCGTGTGGCCCGAGGAGGATGGCTGGACCAAGG 1130	
Db	53569	TGACAGCTCCGTGTGAGAGAGGTGATGGCAGCGTGTGGCCCGAGGAGGATGGCTGGACCAAGG 53628	
Qy	1131	GGCAGGTGCTGGTGAAGGTCAATTCGACGT----- 1162	
Db	53629	GGCAGGTGCTGGTGAAGGTCAATTCGACGTGGTGTGCTGCTGCTGCTGATAGACCCCA 53688	
Qy	1163	----- 1162	
Db	53689	AGGAGGGTGGCCCTCGGATCTGGCCCGAGGTCCCCCAGTCAAGATCATTTGTATCATTT 53748	
Qy	1163	----- 1162	
Db	53749	GTCACTCTTCTGCT 53808	
Qy	1163	----- 1162	
Db	53809	GTCTGTTCGAAGTGCATTTTCATGCACTGTGTAAGAGCATGAGCTCTGGAGCCCTGCTGCTT 53868	
Qy	1163	----- 1162	
Db	53869	GCATTGGGACACACCCCTTTAGCTCACCATCTCTGCTCTCTCTCTCTCTCTCTCTCTCT 53928	
Qy	1163	----- 1162	



Db	53929	CTCTGTCTCAGTTTTATCATCCATAAAATGGGAATAGTAGGAGTACTTGGCTCTCTGGAG	53988
Qy	1163	-----	1162
Db	53989	GAATTGTGAGGATCAATTGAGTTTCATCTATGAAAGCATTTAGAAATGGTCCCGGCACATA	54048
Qy	1163	-----	1162
Db	54049	GTGATACATAAGTATTAGTCTGCTATTATTATCATCATTTGTGTTTAGTCAATTAATATGA	54108
Qy	1163	-----	1162
Db	54109	ATTAATAACAATCTCATGAGATACAGGTACTTTTATCCTATTTTCAGACAAGAACACTGA	54168
Qy	1163	-----	1162
Db	54169	AGCTCAAGGGCATGAGCTATTCTCAAGCTCACACAGTGAGAGTAGCTGGTCTTGGAAAC	54228
Qy	1163	-----	1162
Db	54229	TTAAGTAGTCTTCATTTGTGTTAGTCACTCAGCAACATTTTGGAGTACAGTATGAGCC	54288
Qy	1163	-----	1162
Db	54289	AGCAATATGTTAGGAGCTGGAGATACCACAGCAGGTAAACAGGTACAGCTTGATGGTTAA	54348
Qy	1163	-----	1162
Db	54349	GAGCATAGCGGTGAGCTCCAGACCCGTTGAAGGCATCTTAGGCTCACCATTTACTAGCT	54408
Qy	1163	-----	1162
Db	54409	GTGTGATGCTGGCAAGTTGCTTAACTCTCTGAGCCTGCATTTCTCACCCTGCAGATG	54468
Qy	1163	-----	1162
Db	54469	AGGACTGTAATGTATCTACCCACAGGGTTGCAATGGCTAAGTGAGCTAATGTGTATAA	54528
Qy	1163	-----	1162
Db	54529	GCATTAGCACAGGGCTGCCAGTCAGTCGTGAGAACATGGCGGGCTCAGGAGATTAAAG	54588
Qy	1163	-----	1162
Db	54589	ATGGGCTCCAGAGAACCTGGAACATTTCAAAACCACCTGTCTCTCGGAGGGCAGCGGT	54648
Qy	1163	-----	1162
Db	54649	TGACAGCTGGAACCCAGGCGACACAAGAAATTAGGGCGGTTCAAGAAAGTGGGGATGAGAA	54708
Qy	1163	-----	1162
Db	54709	AGAAAGCCTTCTCCCTTCAGGAAGTGGGGAGAGATGGTCACCTGTGTGCCCTGCCCTGG	54768
Qy	1163	-----	1162
Db	54769	GAAGCACTGCCCTCTGCTGGCCACCTGGTGAGTTGCAGTTGCCAAAGGTCATGTTTATT	54828
Qy	1163	-----	1162
Db	54829	GAGACCCTACTATGTGCCAGGCACCTGTTTAGAGCACTGATCTCCGAAGCACTTGGATCGA	54888
Qy	1163	-----	1162
Db	54889	CACCCATGTCATAACCAACATTTAATTAACCCACACCCCACTGCTGTGAATATTGTT	54948
Qy	1163	-----	1162
Db	54949	TGTAAGTAATACATATATTACTACATTAATATCATATAAAGATAGATAAATAGAAA	55008
Qy	1163	-----	1162
Db	55009	TTGATGGAGTAGAAATGCAAGCAGGTAGAAAAAGTAAACGTAAGTAGAAGAGCTCATAT	55068
Qy	1163	-----	1162
Db	55069	TTTCCCCAGGCACATGGATGATGTACCTACCTTACTTCTTTGGAGGCCACTGCTTAGGGAC	55128
Qy	1163	-----	1162
Db	55129	TGGGACTCAAGCACACAGTCCAGTCCATGAGGAGCTGATGAAAAATCAACACCAAGGCTTA	55188
Qy	1163	-----	1162
Db	55189	TATAAGACACTTCCCAATTTTCAAGGGCTTTTATACATAGCATGTACTTATAGTACTA	55248
Qy	1163	-----	1162
Db	55249	TTTATATACATTTATTTATTTGACTTATGAAATAGTTGGGCAAGTCTTATTGTCTCCAT	55308
Qy	1163	-----	1162
Db	55309	TTTACCAGGGAAGAAAGTGAGGCTGAGGAGGCTCAGACCCCTGCCAGGTTCTTCTCTGAC	55368
Qy	1163	-----	1162
Db	55369	TCACTGAGAACTTTTCTCTCATCTCTTGGATGTCTTCCCTGGGCTGGTGGCTGGCTGG	55428
Qy	1163	-----	1162
Db	55429	GCACATGCACCTGTGTTATCTGAGCACACCAGGACTTCAACCCCGCTACTAGGAGAAA	55488
Qy	1163	-----	1162
Db	55489	CAACCTCTCAGCCTCCCAACACAGCACCTCCACCTGGCATCCAGCTGGTCCCCGGCCTCC	55548
Qy	1163	-----GATGCCATTGGCCTGCAGCA 1183	
Db	55549	CTCCCTTCCCCACCACAGTCCGCCCTCTGCTGTCTTTGCAGATGGCAATTTGGCTGCAGCA	55608
Qy	1184	GATGCCCTGTGTGGCCACATCTCTGGGGCTCAATGAGCGTCTCTTTGTTGTCAACCCA 1243	
Db	55609	GATGCCCTGTGTGGCCACATCTCTGGGGCTCAATGAGCGTCTCTTTGTTGTCAACCCA 55668	
Qy	1244	CAGGAAGTGCATGAGCT----- 1260	
Db	55669	CAGGAAGTGCATGAGCTGGTAGGACAGGAGGCTGCCAGGGCCAGGAGGAGATCTA 55728	
Qy	1261	-----	1260
Db	55729	TTTTGAGTGTGGCAGTGGTGGATTCTGGGGAGGGTCCCAGGAGAGAGAGAGGGGCG 55788	
Qy	1261	-----	1260
Db	55789	CTGGCTCTGGCTGCTGGGTCCCTCAGCACAAAGAGTGGGCTCAGCTGATGGGG 55848	
Qy	1261	-----	1260
Db	55849	AATTTCCAAGATAGTGCAGGCAGGGGCTGGTAGCACTGGTTGGGAGCTCCCAAGAGAA 55908	
Qy	1261	-----	1260
Db	55909	AGAGGAGACCTGCCCTAGTTAGGGGTTCCCCAGGAGACAGGAGCCCCAAAAGAGGGGTCT 55968	
Qy	1261	-----	1260
Db	55969	TCAGCACTGGGAGGCCCTATCTCCAGCTGCTATAGCCCTTAGACACCCCTTACTTCCCA 56028	
Qy	1261	-----	1260
Db	56029	CTCCTGCCCTCTTAACCCCTCTCTTAACACGAGCATAGAGTCCCTTGGCCCCAACCCCTCTCC 56088	
Qy	1261	-----	1260
Db	56089	CCCTACCTGTGCCCTTTCCCTGGATTCTCAGGCAGGCCCTGAGCACTCTTCCACCCCGC 56148	

Qy	1261	-GATCCACACCCCTGACCACTGGGGCCCACTGTGGCTCTGTGGGGCTGTGACCTGG	1319	Db	57229	AGGAAGGGGTGTTTCAGCACCTAGGATAGGGGTGTACCGGTGCATCTCGCCCTCAGTGTGT	57288
Db	56149	AGATCCACACCCCTGACCACTGGGGCCCACTGTGGCTCTGTGAGGGCTGGACCTGG	56208	Qy	1711	-----	1710
Qy	1320	TGAGTGCACAGGCTGGCAGGCAGCTGACGGACACGACTGGAGGCTTTCACACGTA	1379	Db	57289	GCATGGGGCAGGAGATCCTGTGTGAAGACTGGGCTGGAGCATGTGGTGTCCAGTCTCTG	57348
Db	56209	TGAGTGCACAGGCTGGCAGGCAGCTGACGGACACGACTGGAGGCTTTCACACGTA	56268	Qy	1711	-----	1710
Qy	1380	TCCA-----	1383	Db	57349	GGGTCTGAGTGGCCAGGGCAGTGTACGGGGCTCCAGAGCCCAAGGGGCTGGCATGGAGCG	57408
Db	56269	TCCACACAGTATGGAGGCAGAGCTGGGGGAGGAGACAGCGCGGGGCGCCGGGTCTG	56328	Qy	1711	-----	1710
Qy	1384	-----	1408	Db	57409	CCTGTGTGCACAGGGCTGTCTGCCCTTCAGGAATCCCGAGGGGCTTTCGGGGCTAGACCC	57468
Db	56329	GCTCAGCACTCGTACCTCTCCTGTGTACCCACCAAGTGTGAGCTGATCCACTATGTG	56388	Qy	1711	-----	1710
Qy	1409	CTGGGCCCCCAGCATCTGCGGGATGTACACCGCCCAACCTGGAGGCTTTCATGCGCCGC	1468	Db	57469	AGTAGAGAGCGGAGGATAGAGTTGGGGTGGAACTCCCACTCCAGGAACCTTTTGAGG	57528
Db	56389	CTGGGCCCCCAGCATCTGCGGGATGTACACCGCCCAACCTGGAGGCTTTCATGCGCCGC	56448	Qy	1711	-----	1710
Qy	1469	TTCATAGCTGAGTACTGSGTGGCCACCGAGCTGTCTCTGCCCTGCGCCGCGCC	1528	Db	57529	ATTTTTCAGGGTTTGTACTATTTCTGGAGAGAAGCAGAGAGGTACTTTCATCAGCATAGC	57588
Db	56449	TTCAATAGCTGAGTACTGSGTGGCCACCGAGCTGTCTCTGCCCTGCGCCGCGCC	56508	Qy	1711	-----	1710
Qy	1529	CGGGCCCACTGCTCAGGAAGTTTCAATTAAGCTGGCGGCCA-----	1569	Db	57589	CTGGGAGCTCTTCAGAGAAAATCCACCTCGTGGGGCTCAAGGGATTCAAAGGAGTTTACT	57648
Db	56509	CGGGCCCACTGCTCAGGAAGTTTCAATTAAGCTGGCGGCCCAAGTTCCTGCTGCTG	56568	Qy	1711	-----	1710
Qy	1570	-----	1569	Db	57649	CTCAGAGAGAGAGAGGGGACACAGAAAGACAGAGGATAGAAAGGACAGAGAGGT	57708
Db	56569	GTAGGGCTGGCCAGAGTCCCCCGGCTACCTTTTCTTAAGCCCTCTTTGCTAGTA	56628	Qy	1711	-----	1710
Qy	1570	-----	1569	Db	57709	GACAGTGACAGACTTTTCCAAAGAACCTGGGGCCCTGTGACTAATCTGCTGAATTTTC	57768
Db	56629	TGTTGCCAATCTGCCACCTATTTGTTCCCTGGTCCCTGGAGCCTGTGCCTTCCCAC	56688	Qy	1711	-----	1710
Qy	1570	-----	1569	Db	57769	TCAGTGTAAATGGAGGTTTGAAGCCCGTGTTCGCTGTGTGACAGAGCCTGGGTGAGACC	57828
Db	56689	CCCATCCAGCTTGGATCTCTCAGAGGCTGGCTGGCTGTTGTCGGGGCACTGTAGGG	56748	Qy	1711	-----	1710
Qy	1570	-----	1582	Db	57829	TGGGGCTGAGAGAGGCTGAGTTGGGGCCCTCTGCACCTGCTGTGGATGGGCATGTGGCC	57888
Db	56749	GTGGCTGCTCCCTTACCCTGAGGGTCTCTGGGTCTTCTGCTCAGAGCCTCAAGAGGACG	56808	Qy	1711	-----	1710
Qy	1583	AAGAATCTCAATTCCTTTTGGCTCATGTTTGGCTCAGCAACTCGGCCATCAGCCGC	1642	Db	57889	CCTCCTTGGTGGGTGGGTCTGTGGTGGCTTATGGTGTGTGCAACCCCTCAGTGTGGC	57948
Db	56809	AAGAATCTCAATTCCTTTTGGCTCATGTTTGGCTCAGCAACTCGGCCATCAGCCGC	56868	Qy	1711	-----	1759
Qy	1643	CTAGCCACACCTGGG-----	1658	Db	57949	TTCTTCCCTTAGGATCCCTCATGGAAACACCGGGTATACCGACTGGCCCTCGCCCAAGCTC	58008
Db	56869	CTAGCCACACCTGGGAGGTAAGTGTCTGAGGGGCCCTCCTGAGGTCAGGCCTCA	56928	Qy	1760	TCCTTCCCTCTCATCCCTTCATGCCCCCTTCTTCTCAA-----	1797
Qy	1659	-----	1658	Db	58009	TCCTTCCCTCTCATCCCTTCATGCCCCCTTCTTCTCAAAGGTAACAGGGCTTCTCCTCCTC	58068
Db	56929	GGCCCTCCTGGGAGTGTGATGGGCTGGGCTCCGCCCTCCAGAGCAGCCGCTCATCTGCCT	56988	Qy	1798	-----	1797
Qy	1659	-----	1709	Db	58069	CATCCCTCCATTCCTTCCCTTCCTGCCTCCATCCCCCATTTCCCTTCCCTGCCTCCATCC	58128
Db	56989	CTTTTTCACAGCGGCTGCCTCACAAAGTCGGAGCTGTACTCCGCCCTCAGAGGCTGC	57048	Qy	1798	-----	1797
Qy	1710	T-----	1710	Db	58129	CCATCCCATGCCATCTGTGTGTGCACCCACCTCTGTGTGGAGAGATTATACCTCAAGTGC	58188
Db	57049	TGTTGATGTCTCCACCTCGCCCGGCTGGCTCTGCTAGGATCAGCTGGGCTCGGCCCTGC	57108	Qy	1798	-----	1797
Qy	1711	-----	1710	Db	58189	TGATGCTCAGGGAGTGCAGAGATGAATTAGAGGTTCTTAGACTGGAAGAAATGAAGACAT	58248
Db	57109	CCTCAGACACCCCTACTCTTGGCTTCCCTGTGAGCCCCCTACTCTGCTCTTGTCTACTTT	57168	Qy	1798	-----	1797
Qy	1711	-----	1710	Db	58249	CCAGACAATACGGGCTGCCCTTCCAGGCGCTTAAGAGATACAGGAATGCTGCTGGGCTT	58308
Db	57169	CAGGGTTCCAACTCGGCCAGGGCTAGCTCCAGCTGTGAGTTTGGGAGCTGGCTG	57228	Qy	1798	-----	1797
Qy	1711	-----	1710				

D	b	58309	GGAGGGGCAGAGCGCAGGCGCTCATGTGGGTGAGGTAGGCCCAAGGAGCGCGTTATGCGCC	58368
Q	y	1798	-----	1797
D	b	58369	TTCACCTTTTCTGGCTACAGGAGGCGAGAAGTTTGGGGACCCTATGAACAAAACCATCT	58428
Q	y	1798	-----AGACATGACCTTCATTTCATGAGGGAAACACACACTAGTGAGAAATCTCATCAA	1851
D	b	58429	C TT TG C A G A C A T G A C C T T A T T C A T G A G G A A A C C A C A C A G T A G T G G A A A T C T C A T C A A	58488
Q	y	1852	C T T T G A G A A G A T -----	1863
D	b	58489	C T T T G A G A A G A T G T G A G T C C A G G A G A G A G A G C A T T C A C T A C A T A G A G T T G A G A G A	58548
Q	y	1864	-----	1863
D	b	58549	C A T G A C T G T G G C C T G G G A A G G G C A G G G C T T G G A G C A G C T T A A A C T T G T T A T G A A T A A T	58608
Q	y	1864	-----	1863
D	b	58609	A T G A G G A T G A A T A C T T A C T G T G T A A T A G C C C T G C C T T A T T C C A C T G C A A C T G G G T C T G C	58668
Q	y	1864	-----	1863
D	b	58669	C A G G G T C C C A G C C T C A G A C G T C T C A C A A T T C A A C A G A G A G C C C T T C A G O C C C T T C T C T C	58728
Q	y	1864	-----	1863
D	b	58729	T A A G C C T T T C T C C T G C C T C T G C C T T C T G T C C T C T G C T G C T G C C C G C T G G C C T C T G	58788
Q	y	1864	-----	1863
D	b	58789	G G T G T G T G A G G C G A A G T A C A C A T G A T G C C A C A T A A C C A A G G A T C T T A C A G T C C C T G A T C	58848
Q	y	1864	-----	1863
D	b	58849	C T T G G T T C A G A G G A G C T T G G C C T C C C T G C T G T C A C A G G C A G A C A G G T T T C T C C C	58908
Q	y	1864	-----G A N A T G A T G G C C A G A G C G C G C G G A	1889
D	b	58909	T C A G G C A A G A G C T T A T G C C C G G T G T G T C C G C A G A G A T G A T G G C C A G A G C G C G C G G A	58968
Q	y	1890	T G T G C A C C A C T G C C A A G C C A A C C C T -----	1918
D	b	58969	T G C T G C A C C A C T G C C G A A G C C A A C C C T G T G A G A G G G G G T C C C C G G G T G G A G A G T	59028
Q	y	1919	-----	1918
D	b	59029	C C C C A C C C T A C A T C C T C T G T A G G C T C C A G G G T G G C C C T G A C T C C A T G A C C C C T C C C A	59088
Q	y	1919	-----GTG CCTCTCACC ACTCAG AAGCCGAGTTTCCC ACCCTCCACGAGGACAGCC-	1970
D	b	59089	C C C C G C A G T C T C T C A C C A C T C A G A G C C C A G T T T C C C A C C T C C A C G A G G A C A G C C	59148
Q	y	1971	A G G T G C G A G G A T T T C C A C A T -----	1991
D	b	59149	A G G T G C G A G A T T T C C A C A T G A A G T G G T G G C G A T G T G G T G G C A G G A G G G G T G	59208
Q	y	1992	-----	1991
D	b	59209	C T T A T G T A G T T A C C A T G G C T G G C A C A T C C T A G G C A C T T G C C A T G T G C C A G C A G G A G	59268
Q	y	1992	-----	1991
D	b	59269	C C C G G C C C T T C C A T A C A T A G T T G A A T A T G T T C A G C C T C T G T G C T C T A G C C A G G G G G C	59328
Q	y	1992	-----	1991
D	b	59329	T C T T C G G T C C C C T C A C C C G T G G G G T G G C A G G A C A G C C C T C T T T A G G A A T T G G T G A T G G	59388
Q	y	1992	-----	1991
D	b	59389	G A A G T G G T G G T G G G T G G A G G G C A A G A A G C A G A T G T G A T A T G C C T T G A G G G G G	59448

Qy	2424	-----	2423
Db	60529	TGATAGAAACAATGCTGAAGCTTCGCGGAGAGCCCGTCTGTTTGAGGCCCAACAGAC	60588
Qy	2424	-----	2423
Db	60589	TTCCAGGAATCAGGGTTTATCATCAGTGTGAGAAATGTTCCAGCAAGCTCTGGTCATA	60648
Qy	2424	-----	2423
Db	60649	CGAAGTCCTCTCTCCCTGCCCTTCAGCACTTCCCTTAGAACACAGCTACTGCCAGGAC	60708
Qy	2424	-----	2423
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SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;  
Primates; Catarrhini; Hominiidae; Homo.  
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Muzny, D., Aronson, A.D., Brundage, E., Carvelli, K., Chen, E., Di, W.,  
Ding, Y., Dugan, S., Durbin, J., Forcum, J., Ganesh, R., Garcia, C.,  
Goodman, M., Gorrell, J.H., Haywood, M., Jackson, L., Kampal, R.,  
Karpaty, S., Leal, B., Li, Y., Liu, W., Logan, O., Lu, J., Ly, T.,  
Martinez, C., Oswal, G., Perez, L., Rashid, N.D., Rowland, K.,  
Savage, L., Scherer, S.S., Shen, H., Timms, K.M., Todd, J., Vo, Q.,  
Worley, K.C., Yu, W., Chinault, C., Nelson, D. and Gibbs, R.A.  
Direct Submission  
Unpublished

TITLE  
JOURNAL  
REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT  
2 (bases 1 to 157404)  
Worley, K.C.  
Direct Submission  
Submitted (28-FEB-1998) Molecular and Human Genetics, Baylor  
College of Medicine, One Baylor Plaza, Houston, TX 77030, USA  
[WARNING] On Apr 13, 1998 this sequence was replaced by a newer  
version gi:3046263.  
On Apr 4, 1998 this sequence version replaced gi:3004524.  
\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 9 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.

1 52081: contig of 52081 bp in length  
\* 52082 52101: gap of unknown length  
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\* 92894 92913: gap of unknown length  
\* 92914 132793: contig of 39880 bp in length  
\* 132794 132813: gap of unknown length  
\* 132814 152574: contig of 19761 bp in length  
\* 152575 152594: gap of unknown length  
\* 152595 154290: contig of 1696 bp in length  
\* 154291 154310: gap of unknown length  
\* 154311 155295: contig of 985 bp in length  
\* 155296 155315: gap of unknown length  
\* 155316 156019: contig of 704 bp in length  
\* 156020 156039: gap of unknown length  
\* 156040 156741: contig of 702 bp in length  
\* 156742 156761: gap of unknown length  
\* 156762 157404: contig of 643 bp in length.

Location/Qualifiers  
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BASE COUNT 45692 a 35598 c 34547 g 41402 t 165 others  
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Best Local Similarity 16.2%; Pred. No. 4.5e-126;  
Matches 2433; Conservative 0; Mismatches 1; Indels 12584; Gaps 12;  
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Db	54567	GTGATACATAAGTATTAGCTGCTATTATTATCATCATTTTGTGTAGTCATTTAATATGA	54626
Qy	1163	-----	1162
Db	54627	ATTAATAACAACTCATGAGATACAGGTACTTTTATCCTATTTCAGACAAGAACACTGA	54686
Qy	1163	-----	1162
Db	54687	AGCTCAAAGGGCATGAGCTATTCCCAAGCTCACACAGTGAGAGTAGCTGGTCTTGAAC	54746
Qy	1163	-----	1162
Db	54747	TTAAGTAGTCTTCATTGTTTGTAGTACTCAGCAAAACATTTTTCAGGATCAGCTATGAGCC	54806
Qy	1163	-----	1162
Db	54807	AGCAATATGTTAGGAGCTGGAGTACCACAGCAGGTAAACAGGTCAGCTTGATGGTTAA	54866

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Qy	1163	-----	1162
Db	54867	GAGCATAGAGGTGGACTCCAGACCGTGAAGGCATCTTAGGCTCACCATTACTAGCT	54926
Qy	1163	-----	1162
Db	54927	GTGTGATGCTGGCAAGTTCCTTAACCTCTCTGAGCCTGCATTTCTCCTCAGCTGTAGATG	54986
Qy	1163	-----	1162
Db	54987	AGGACTGTAAATTGTATCTACCCACAGGGTTGCAATAGCTAGTGAGCTAATGTGTGTAAA	55046
Qy	1163	-----	1162
Db	55047	GCACCTTAGCACAGGGCTGCCAGTCACTGCTGAGAACATGCGGGCTCAGAGTATTAAAG	55106
Qy	1163	-----	1162
Db	55107	ATGGGCTCCAGAGAACCTGGAACATTTCAAAACCACTGTTCTCTCGGAGGCGCACGGCT	55166
Qy	1163	-----	1162
Db	55167	TGACAGCTGGAACCCAGGGCAGACAAGATTAGGGCGTTCAAGAAGTGGGGATGAGAAA	55226
Qy	1163	-----	1162
Db	55227	AGAAAGCCTTCTCCCTTCAGGAAGTGGGAGAGATGGTCACCTGTGTGCCCTGCCCTGG	55286
Qy	1163	-----	1162
Db	55287	GAAGCACGTGCCCTCTGCTGGCCACCCTGGTGAGTTGCAGTTGCCAAAGGTCATGTTATT	55346
Qy	1163	-----	1162
Db	55347	GAGACCCTACTATGTGCCAGGCACCTGTTTAGACACTGATCTCCGAAGCAGCTTGGATCGA	55406
Qy	1163	-----	1162
Db	55407	CACCCATGTCATAACCAACATTTAATTAACCCACACCCCCACTGTGTGAATATTGTT	55466
Qy	1163	-----	1162
Db	55467	TGTAAGTAATACACATATATTACTACATTAAATATATAAATAGATAGATAAATAAGAAA	55526
Qy	1163	-----	1162
Db	55527	TTGATGGAGTAGAAATGCAAGCAGGTAGAAAAAGTAAAGTAAAGTAGAAGAGCTCATAT	55586
Qy	1163	-----	1162
Db	55587	TTTCCCGCAGCACATGGATGATCTGATGTACCTTACTTTGGAGGCCACTGCTCTAGGGAC	55646
Qy	1163	-----	1162
Db	55647	TGGGACTCAAGCACACAGTCCAGTCCATGAGGAGTGTGATAAATCAACCAAGGCTTA	55706
Qy	1163	-----	1162
Db	55707	TATAGACACTTCCCAATTTTCAAAGGGCTTTTATACATAGCATGTACTTATAGTACTA	55766
Qy	1163	-----	1162
Db	55767	TTTATATACATTTATTTTATTTGACTTATGAATAGTTGGGCAAGTCTTATTTGCTCCAT	55826
Qy	1163	-----	1162
Db	55827	TTTACCAGGAAGAAAGTGAAGGCTGAGGAGGCTCAGACCTGCCAGGTTCTTCTCTGAC	55886
Qy	1163	-----	1162
Db	55887	TCACTGAGAATCTTTCTCTCATCTTGGATGTGCTTCCCTGCGGTGCGTGGCTGCGTGG	55946



QY 1163 ----- 1162  
Db 55947 GCATGACACCTGTGTATCTGAGCACACCCAGGACTTCACCCCGCTACTAGAGAAA 56006  
QY 1163 ----- 1162  
Db 56007 CAACCTCTCAGCCTCCCAACAGCACCTCCACCTGGCATCCAGCTGGTCCCGGCCCTCC 56066  
QY 1163 -----  
Db 56067 CTCCTTCCCCACCCAGTCCGCCCTCTGCTGTCTTTGGAGATGCCATGGCCCTGAGCCA 56126  
QY 1184 GATGCCCCGTGTGGCCACATCTCTGGGGCTCAATGAGCGTCTCTTTGTTGTCAACCCA 1243  
Db 56127 GATGCCCCGTGTGGCCACATCTCTGGGGCTCAATGAGCGTCTCTTTGTTGTCAACCCA 56186  
QY 1244 CAGGAAGTGCATGAGCT----- 1260  
Db 56187 CAGGAAGTGCATGAGCTGTTAGGGACCAGGAGGTGCCAGGGCCAGGGAGGAGATCTA 56246  
QY 1261 ----- 1260  
Db 56247 TTTTTCAGTGTGGCAGTGTGATTTCTGGGAGGGTCCAGGGAGGAAGAGAGGGGGC 56306  
QY 1261 ----- 1260  
Db 56307 CTGGCTCTGGCTGCTGGGTCTCAGCACACAAGGAGTGGGCTCAGCTGATGGGG 56366  
QY 1261 ----- 1260  
Db 56367 AATTCOAAGATAGTGCAGGCGAGGGGCTGTAGCACTGGTTGGAGCTCCCAAGGAGAA 56426  
QY 1261 ----- 1260  
Db 56427 AGAGGAGACCTGCCCTAGTTAGGGGTTCCCGAGGAGACAGAGCCCCAAAAGGAGGGGTC 56486  
QY 1261 ----- 1260  
Db 56487 TCAGCACTGGGAGGCCCTATCTCCAGCTGCTATAGCCCCTAGAGACCTCTACTCCCCA 56546  
QY 1261 ----- 1260  
Db 56547 CTCCTGCCCTCCTAAACCCTCTCTTAACAGCAGCATAGAGTCTTTGCCCAACCCCTCTCC 56606  
QY 1261 ----- 1260  
Db 56607 CCCTACCTGTGCCCTTTCCCTGGATTCTCAGGAGGCCCTTGAGCACTCTCCCAACCCGC 56666  
QY 1261 -GATCCCAACCTGACCACTGGGGCCCACTGTGGGCTCTGCTGAGGGGCTGGACCTGG 1319  
Db 56667 AGATCCCAACCTGACCACTGGGGCCCACTGTGGGCTCTGCTGAGGGGCTGGACCTGG 56726  
QY 1320 TGAGTGCCAAAGACCTGGCAGCCAGCTGACGGACCACACTGGAGCCCTCTTCAACAGTA 1379  
Db 56727 TGAGTGCCAAAGACCTGGCAGCCAGCTGACGGACCAGCTGGAGCCCTCTTCAACAGTA 56786  
QY 1380 TCCA----- 1383  
Db 56787 TCCACCAAGTATGGGAGGCAGAGCTGGGGGAGGAGAGAGCGGGGGGGGGCTCG 56846  
QY 1384 -----  
Db 56847 GCTCAGCACTCGCTGACCTCTCCTGCTGACCCCAACCAAGGTGGAGCTGATCCACTATGTG 56906  
QY 1409 CTGGGCCCCAGCATCTCGGGGATGTCAACACGCCCAACCTGGAGCGCTTCAATGCGCGC 1468  
Db 56907 CTGGGCCCCAGCATCTCGGGGATGTCAACACGCCCAACCTGGAGCGCTTCAATGCGCGC 56966  
QY 1469 TTCATAGCTCCAGTACTGGGTGGCCACCGAGCTGTCTCTGCCCCGTGCCCGGGCCC 1528  
Db 56967 TTCATAGCTCCAGTACTGGGTGGCCACCGAGCTGTCTCTGCCCCGTGCCCGGGCCC 57026  
QY 1529 CGGGCCCAAGCTGCTCAGGAAGTTTCATTTAAGCTGGGGGCCA----- 1569

Db 57027 CCGGCCAGCTGCTCAGGAAGTTTCATTAAGCTGGCGGCCAGTGAGTCCCTGTCCAGTGG 57086  
QY 1570 ----- 1569  
Db 57087 GTAGGGCGTGCCAGAGTCCCGCGGTACCTTTTCTTAAGCCCCCTCTTTGTCTAGTA 57146  
QY 1570 ----- 1569  
Db 57147 TGTTCGCAAAATCTGCCACCCTATTGTTCCTTCCCTGGGTCCCTTGGAGCCCTCTGCCCTTCCAC 57206  
QY 1570 ----- 1569  
Db 57207 CCCATCAGCTTGGATCTCTGCAGAGGCTGGCTGGCTGTTGCTCTGGGGCACCTTAGGG 57266  
QY 1570 -----  
Db 57267 GTGGCTGCTCCCTTACCTTACCTGAGGCTCTCTGGGTCTTGTCTCAGAGCTCAAGAGCAG 57326  
QY 1583 AAGATCTCAATTCCTTCTTGGCCCTCATGTTTGGCCCTCAGCAACTCGGCCATCAGCGC 1642  
Db 57327 AAGATCTCAATTCCTTCTTGGCCCTCATGTTTGGCCCTCAGCAACTCGGCCATCAGCGC 57386  
QY 1643 CTAGCCCCACCTGGG----- 1658  
Db 57387 CTAGCCCCACCTGGGAGGTAAGTGTCTGAGGGGCCCTCTCTGAGTCAAGCCCTCA 57446  
QY 1659 ----- 1658  
Db 57447 GGGCTCTCTGGAGTGTGGATGGGGCTGGGCTCCCGCAGCAGCGCTCATCTGCT 57506  
QY 1659 -----  
Db 57507 CTTTTTACAGCGGCTGCTCACAAGTCCGGAAGCTGACTCCGCCCTCGAGAGGCTGC 57566  
QY 1710 T----- 1710  
Db 57567 TGGTGAAGTCTCCACCTGCCCGCTGGCTCTGTAGGATCAGCTGGGCTCGGCCCTGC 57626  
QY 1711 ----- 1710  
Db 57627 CCTCCAGACACCTCAGCTTTGGCTTCCCTGCAGCCCCCTCTACTCGTCTCTTTGTCACTTT 57686  
QY 1711 ----- 1710  
Db 57687 CAGGTTTCCCAACCTCGGCCAGGCTTACCTCCAGCCTGTGAGTTTGGGAGCTGGCTG 57746  
QY 1711 ----- 1710  
Db 57747 AGGAAGGGTGTTCAGCACTAGGATAGGGTTTGCACGGTGCATCCTGGCCCTCAGTGTGT 57806  
QY 1711 ----- 1710  
Db 57807 GCATGGGGCAGGAGATCCTGTGTGAAGACTGGGCTGGAGCATGTGGGTGTCCAGTCTCTG 57866  
QY 1711 ----- 1710  
Db 57867 GGGTCTGAGTGGCCAGGCGAGTGTGAGGGCTTCCAGAGCCCAAGGCCCTGGCATCGAGCG 57926  
QY 1711 ----- 1710  
Db 57927 CCTGTGTCAACAGGGCTGTCTGCCCTCAGGAACCTCCGAGGGCTTTCCGGGCTAGACC 57986  
QY 1711 ----- 1710  
Db 57987 AGTAGAAGCGCAGGATAGAGTTGGGGTGAACCTCCACCTCCAGGAACCTTTTGAGG 58046  
QY 1711 ----- 1710  
Db 58047 ATTTTGAAGGTTTGTGACTATTCTGGAGAGAAGAGAGAGGTACTTTCATCAGCATAGC 58106  
QY 1711 ----- 1710

Db	58107	CTGGAGCTCTTGAGAGAAATCCACCTCGTGGGGCTCAAGGGATTCAAAGGAGTTTACT	58166	QY	1864	-----	1863
QY	1711	-----	1710				
Db	58167	CTCAGAGAGAGAGGGGACACAGAAAGACAGAGGATAGAAAGGACAGAGGT	58226	Db	59247	TAAGCCCTTCTCCTGGCCCTCGCCCTCTGTCTCTGTGCCTGGTCCCGCTGGCCCTCTG	59306
QY	1711	-----	1710	QY	1864	-----	1863
Db	58227	GACAGTGACAGACTTTTCCAGAAACCTGGGGCCCTGTGACTAACTGCTGTGAATTTTC	58286	Db	59307	GGTGTCTGAGGCGAAGTACACATGATGCCACATAACAAGGATCTTTACAGTCCCTGATC	59366
QY	1711	-----	1710	QY	1864	-----	1863
Db	58287	TCAGTGTCTAATGGAGGTTGGAAGCCCGTGTTCGCCTGTGACAGAGCCTGGGTGAGACC	58346	Db	59367	CTTGGTTACAGAGGAGCTTGGCCCTCCTGCTGTGCACAGGCGAGGACAGGTTTCTCCC	59426
QY	1711	-----	1710	QY	1864	-----	1863
Db	58347	TGGGGCTGAGGAGAGGTGAGTTGGGGCCCTCTGCACCTGCTGTGGGATGGGCATGTGGCC	58406	Db	59427	TCAGGCAAGAGCTTATGCCCCCGGTGTTCGCGCAGAGAATGATGGCCAGAGCCGCGGGA	59486
QY	1711	-----	1710	Db	1890	TGCTGCACCACTGCCGAAGCCACAACCT	1918
Db	58407	CCTCCTTGGTGGGGTCTGTGTGGCTTATGTGTGCAACCCCTCAGTGTGGC	58466	QY	59487	TGCTGCACCACTGCCGAAGCCACAACCT	59546
QY	1711	-----	1710	Db	1919	-----	1918
Db	58467	TTCTTCCCTTAGGATCCCTCATGGAACCAACGGGTATACGACTGGCCCTCGCCAAAGCTC	58526	Db	59547	CCCCACCTTACATCCTCTGTGAGGCTCCAGGGTGGCCCTGACTCCATGACCCCTCCCCA	59606
QY	1760	TCCCTCTCTGTCATCCCTTCATGCCCCCTTCTTCTCAA	1797	QY	1919	-----	1918
Db	58527	TCCCTCTCTGTCATCCCTTCATGCCCCCTTCTTCTCAAAGGTAAACAGGGTTCCTGCCTC	58586	Db	59607	CCCCCGAGTGGCTCTCTACCACTCAGAAAGCCAGTTCCTCCACCTCCACGAGACAGCC	59666
QY	1798	-----	1797	QY	1971	AGTGGCGAGGATTCCACAT	1991
Db	58587	CATCCCTCCATTCCTCCCTCTGCTGCCTCCATCCCCCATTTCCCTTCTGCTCCATCC	58646	Db	59667	AGTGGCGAGGATTCCACATGTAAGTGGTGGCGATGGTGGCGAGGGAGGGGTG	59726
QY	1798	-----	1797	QY	1992	-----	1991
Db	58647	CCATCCCATGCCCTATCTGTGTGTGCACCCACTCTGTGTGGAGAGATTATACCTCAAAGTGC	58706	Db	59727	CTTATGTTAGTTACCATGSCCTGGCACATCCTTAGGCATTTGCCATGTGCCAGCACGGAG	59786
QY	1798	-----	1797	QY	1992	-----	1991
Db	58707	TGATGCTCAGGAGTGCAGAGATGAATTAGGAGTTCTTAGACTGGAAGAAATGAAGACAT	58766	Db	59787	CCCGGCCCTTCCATACATGATGTTGATAATGTTACGCTCTGTGCTCTGAGCCAGGGGC	59846
QY	1798	-----	1797	QY	1992	-----	1991
Db	58767	CCAGACAAATACGGGTGCTTCAGGGCCTAAGAGATACAAGAAATGCTGTGGGCTT	58826	Db	59847	TCTTCGTCCCTCACCCGTGGGTGGCGAGGACAGCCGCTTTTAGAAATTGGTATGG	59906
QY	1798	-----	1797	QY	1992	-----	1991
Db	58827	GGAGGGGCAGAGGCAGGGCTCTATGGGGTGAGGTAGGCCCAAGGGAGCCGTTATGCC	58886	Db	59907	GAAAGTGGTGGTGGGTGGAGGGCAAGAAGCAGATGTGATATGGCTCTTGGAGGGG	59966
QY	1798	-----	1797	QY	1992	-----	1991
Db	58887	TTCACTTTCTGGGCTACAGGAGGCAGAAAGTTTGGGACCTATGAACAAACCCATCT	58946	Db	59967	AAAGGTTGGTTCCACAAAGGGGCATCAGTGCTCCCTGACTACTCTCTCCACACGGCT	60026
QY	1798	-----	1851	QY	1995	CGAGCAGTCCCTGAGCACCCGAGTCCAGCCAGCAGCTTGCGGCTTATGTCCAGCAGCTGA	2054
Db	58947	CTTTGCAGACATGACCTTCATTATGAGGGAACCAACACACTAGTGGAGAATCTCATCAA	59006	Db	60027	CGAGCAGTCCCTGAGCACCCGAGTCCAGCAGCAGCTTGGGCTTATGTCCAGCAGCTGA	60086
QY	1852	CTTTGAGAAAGAT	1863	QY	2055	AGTCAATTGACACACAGCGGAACTCTCCGCTCTCCGAGAGCTGGAGCCATGAGAG	2114
Db	59007	CTTTGAGAAGAT	59066	Db	60087	AGTCAATTGACAAACAGCGGAACTCTCCGCTCTCCGAGAGCTGGAGCCATGAGAG	60146
QY	1864	-----	1863	QY	2115	GGCTGGGACTGGAGCTGGAGGAGCCTTTCAGCCGGGAAAGCCAGGCTGTGCCGGGCC	2174
Db	59067	CATGACTGTGGCTGGGAAGGGCAGGGCTTGGAGCAGCTTAAACTTGTATGAATAAT	59126	Db	60147	GGGCTGGGACTGGAGCTGGAGCAGGACCTTTCAGCCGGGAAAGCCAGGCTGTGCCGGGCC	60206
QY	1864	-----	1863	QY	2175	AAGATACTCAGAGCTGGCCACAGCTGGGCAAGGCTCTCCGTGGAGTGGAGTCCAGTCCC	2234
Db	59127	ATGAGGATGAATACTTACTGTGTAAATAGCCCTTATTCACCTGCAACTGGGTCTGC	59186	Db	60207	AAGATACTCAGAGCTGGCCACAGCTGGGCAAGGCTCTCCGTGGAGTGGAGTCCAGTCCC	60266
QY	1864	-----	1863	QY	2235	TGAGCAGGCTGGAGGAGCCCATCCCTGTGATGACTGCACACTAAGGAGGACCTC	2294
Db	59187	CAGGGTGCCAGCCTCAGAGCTCACCATTCAACGAGAGCCCTTCAGCCCTCTTCTCTC	59246	Db	60267	TGAGCAGGCTGGAGGAGCCCATCCCTGTGATGACTGGCAGCTAAGGAGGACCTC	60326



Db	62487	AGAAAGGTGTGCAGAAAGGGAGTGTGGCCCTAGATCAGTCTCTTAAAAAGCCCTCTGTT	62546
Qy	2424	-----	2423
Db	62547	ACCTGAAGGAGGTCAAGCAGAGAGGAATGGCTCGTGTGTCTACCGGGCAGGACAG	62506
Qy	2424	-----	2423
Db	62507	GACAGAGGAGTCAATTGTTACACACACATCCCCCCTCCCTTCTCTCCCTCCCTCCACTT	62566
Qy	2424	-----	2423
Db	62567	CCCTGTGAAGCCCTGAGCAGGCTGTGGCCAGGCTCAGGCCCTGACTGTGGGTACACAC	62726
Qy	2424	-----	2423
Db	62727	CAGGAGGGCCACGCCCTCCCCACACAGACGGGTGGAGTGGTCACTGGAGCCAGCACCTCT	62786
Qy	2424	-----	2423
Db	62787	GCTGCTTCAGCATCTCCGCTGGAGCCAGCTGTCCCTCTCTCTCAGGCTCCATCCGAAC	62846
Qy	2424	-----	2423
Db	62847	AAAAGAAAGCAGAGCCTGAGATCCGGCACCCCATCCCTCCACTCAGCACTGAGTTAG	62906
Qy	2424	-----	2423
Db	62907	AGCTGGTGGGGGATCTTCGCCCTTTCACACGCTGCCCTTATGGCTTCGTCTCCTCAACAG	62966
Qy	2424	-----	2423
Db	62967	CCCTCAGCCCTCTGCTGCTCTCTCCCAATAGTCACAAGATTACCATGATATAATAG	63026
Qy	2424	-----	2423
Db	63027	GTTAAGACTTGAATGGTGTTCATCTTTTCATCTTCCCTCTCAGTCTCAGTTACGTTA	63086
Qy	2424	-----	2423
Db	63087	TTTTTATCCTGATCAGAGATAGGTACTACAGGTAATTTTACCTCTGTTTTACAGTCAA	63146
Qy	2424	-----	2423
Db	63147	GAAACTGAGCAGCAGGAGGTTTGCCCAAGGTACATACTGCTTAATAGCAGGGTAGAC	63206
Qy	2424	-----	2423
Db	63207	AGGTGAAGTAAGTGGATGTATCAGCCATGCCCTTTCCCATGCCCGGCACTCCCCA	63266
Qy	2424	-----	2423
Db	63267	TGACAGCTCTCTGAATCCCAACATTTTATTTCTGTCAGGATTAGACCCAAGCATATAA	63326
Qy	2424	-----	2423
Db	63327	TTCCCTTTTCCCTCTCCCATTTCCACATTCCTTTTATTTTCAGTACTTACTATAGCCCT	63386
Qy	2424	-----	2423
Db	63387	TGTAGGGGCTCTGTGAACAGACAAAGCCAGGCTGTGGCTCATGCTGTAAATCCCA	63446
Qy	2424	-----	2423
Db	63447	TGCTTTGGGAGGTAGGCATTTTGAGACCAACCTGGGTAAACAAGACGCCCGTCTCTA	63506
Qy	2424	-----	2423
Db	63507	TAAAAATAAAATTAACCGGTTATGTGTGTGTGCACCTGTAGTCTAGTACTTGGGAG	63566
Qy	2424	-----	2423
Db	63567	GTTGAAGTGGGGGATCACTTTAGCCAGGAGTTTCAGGTTACAGTACAGTATAAATGCA	63626

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Qy	2424	-----	2423
Db	63627	CTCGTCCCTTCTTTGGTTGACAGAAAGACTCTGTCTCTAAAAAGAAAAACAAGAC	63686
Qy	2424	-----	2423
Db	63687	TGGTAGTTCTGGCCCTCATGGGGTCAATCATCCAGCTAGGCAGCCAGAGCTATCAGTAAC	63746
Qy	2424	-----	2423
Db	63747	AAAAGATCCGAGGGATAAAGTCCAGAGCAGCAGAAATCCAGGGCTGCAGCATCTCAGTG	63806
Qy	2424	-----	2423
Db	63807	CTTACCCCAAGCATTAAGGCCACAGAGCTGTCCGTTGGAGCATAGGTTTCATAGCCCCAG	63866
Qy	2424	-----	2423
Db	63867	CTCCCTGAGCCCTGCACAGCTCTGTCCCTGAGATGGGATGCTCTCCACTCATCACTG	63926
Qy	2424	-----	2423
Db	63927	GCACAAGCCACCTGAGTAGCAGCAGGATATGGTGGCTGCAGCAAAATCTGACC	63986
Qy	2424	-----	2423
Db	63987	TGGCAGTTGTCTCAACCCCTTTCTCCCTTCCACAGACCTACAGGCCAGAAAGTACATGT	64046
Qy	2424	-----	2423
Db	64047	CTTTCCAAATGTCTCTAGTACCACCCACCACTCAGTATTGAGCTCTCTCTCATCTCT	64106
Qy	2424	-----	2423
Db	64107	GCCAGGCCATGGATCTATACTAAGTAAGTGTCCACCAGGCTGTCCAGTTGTCGACCC	64166
Qy	2424	-----	2423
Db	64167	AATTCAGGCACCCCTCTCTCAGATTCTGGACTTTCAAGACCTGAGCTGTAGCCTTCTG	64226
Qy	2424	-----	2423
Db	64227	CAACACAGTCTGTGGCATCTGAGGGTGAAGGGCTTGACGCCAGGCACGGGTGACTG	64286
Qy	2424	-----	2423
Db	64287	CCGTCCCTCCAGTGATGATAAACTGGATCATCTGAGAAGCCGAGTCTGACTCAGCTG	64346
Qy	2424	-----	2423
Db	64347	CACCTAGAAAGAGTCTTCTCTCCCATGCCCTGGGGGCCCTTCTTGAGCAGGTTGCTCGATG	64406
Qy	2424	-----	2423
Db	64407	GGGTACGGGAGGATGCTCTCTGTTAGTGTGTTAGTGTGTAACACAGAGGAGGCTGTGACTCC	64466
Qy	2424	-----	2423
Db	64467	CAGAAGAAGACAGAAGGTTAAGCTCACAGTTTGACCCCACTTTTGTGCTAGGAGGTGTG	64526
Qy	2424	-----	2423
Db	64527	GGATTCTGGTTGTGATGTGTGTGGACTGTGACCAGTGTGCACCTGGACCAGGGAGC	64586
Qy	2424	-----	2423
Db	64587	TGGATGCTTCAGGCTTCACCCCTGACTCTGCTGCTTGTCTTGGCCCTTGGAGAGCACT	64646
Qy	2424	-----	2423
Db	64647	TGGATCTTGGTTTTTCTACTGGAGTGAGTTGTAGGCAGTAGAGCTGTTTGGACTGCTG	64706

QY	2424	-----	2423
Db	64707	AATGAGGGCTGTACTGCTTTCTGGCACTTAGCGATCCTAGCTAGCAGAGGGTAG	64766
QY	2424	-----	2423
Db	64767	AGACAGGGTGCCTTTTAGGGGCCATGACAAACAGATATTTTAAGCTTACTTTGACCACC	64826
QY	2424	-----	2423
Db	64827	CAGAAAAGTGCCCTGCCACCAGAGTATAAGGCAGCATAGGTGGATCCCATAGGTGGCA	64886
QY	2424	-----	2423
Db	64887	GTGTGCTGGGCGAGGGGCCCTCCATCTCTCAGCAGCCCTGGGCAAGCAAGCGCTTCC	64946
QY	2424	-----	2423
Db	64947	TCCTCCCTGGGCCCTCACTTTCCCATTTTAGAAACAGGAATTTGGATGAGAAAGTTTGAGG	65006
QY	2424	-----	2423
Db	65007	ATCTATGAATTTGGCAACTCAGGGTGTCAAAAGGGGAAGGGGTAGGCCCTTTAAGCA	65066
QY	2424	-----	2423
Db	65067	TCTTCCCATGTGTGCTTCCAGCCGTGACTGCTCATGCGGAGATAGTGAGCTGCAAGCA	65126
QY	2424	-----	2423
Db	65127	CTGTTTTATTGAGGGGTTCACAGAGTCCCTACCCTCAGTGTGCTCCTGCTACCTG	65186
QY	2424	-----	2423
Db	65187	CTTGAGTCATGCTTGCCCTTCTACTCTTTGAGTTCTAGTTGTCAGTAGAAGGCCCC	65246
QY	2424	-----	2423
Db	65247	TGTTATGTAGATACATAAGTTGGGAAGATTCTAATGGCCCAATTGTAGATTCTAATTAAT	65306
QY	2424	-----	2423
Db	65307	ATTTCTAATGGTCACTTTTAAAGAAATAGAAAAGAGAGCCTCGAGCAATGGCATTAG	65366
QY	2424	-----	2423
Db	65367	GGGAATTTAATGGCATGATCAGGTGGCAAGTCCAGAGATGATTACTTAGGGTGGAGAA	65426
QY	2424	-----	2423
Db	65427	TGTTACAGGGTCTTGGACACAGGGCATCCAGGTGGGAATCAGAGGGAGAGTAGGTG	65486
QY	2424	-----	2423
Db	65487	GCCAGTTTCACCCTCTCAGCGTTGTGGGGCTGAGCCCTGCAGGAGCAACCTGTGTGCTG	65546
QY	2424	-----	2423
Db	65547	GAGGAGAGCCTGCACATCCAGCTGGACTCTGGTGGCCCGGAGAGGTCAGCAATCT	65606
QY	2424	-----	2423
Db	65607	CTGTTTCTCTTCTCGGTTCTTGACTTTGCACAGGCAGCTGTGGATTATCTCATCAAAAT	65666
QY	2424	-----	2423
Db	65667	AGAGCACAGGTCAGGAGGTGAGCCATGGAGTTGCTGCTCTTAGCTTAGCCCCATTGC	65726
QY	2424	-----	2423
Db	65727	AACTTTTAGCTTCCCCCAGAGCAAGCACTGTTCCTAAGGCTGCAGGCCACAGCCCCAGA	65786
QY	2424	-----	2423

Db	65787	AAACAGGTGGTTCCTTTTGGCCAAACACAGGTGAGTTAGACAGTGCAGACTCATCAAGG	65846
QY	2424	-----	2423
Db	65847	GCCATCCCCAAGACTTTGAAAATACCGAGGGTCACGTTTTTTTAAATGAAAATATTATCTT	65906
QY	2424	-----	2423
Db	65907	TGGAATTTATAAATAAATATTACATTATAGAGACTGTAGATTAGAGAGCTGCCACCTTC	65966
QY	2424	-----	2423
Db	65967	TCATATTGTCATTTTTCAGAACTTTTTTTTTTTTTTTTGTGACGAGTCTTGTCTGTGC	66026
QY	2424	-----	2423
Db	66027	GCCAGGCGGAGTGCAGTGGCGCATCTCAGCTCACTGAAAGCTCCACCTCCCGGTTTC	66086
QY	2424	-----	2423
Db	66087	ATGCCATTTCTCCTGGCTCAGTCTCCTGAGTAGCTGGTCTACAGGGGCTGCCACACCG	66146
QY	2424	-----	2423
Db	66147	CCAGCTAGTTTTTTTGTATTTTTTAGATGGAGTTTCACCATGTTAGCCAGGATGGTCTC	66206
QY	2424	-----	2423
Db	66207	AATCTCTGACCTCGTGTATCTGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCT	66266
QY	2424	-----	2423
Db	66267	GAGCCACTGGCCCGCCAGCCAGAACACTTTTCTTTGTATTTTTTTTATTTTATTTCTGG	66326
QY	2424	-----	2423
Db	66327	AGACGGAGTCTGTTCTGTGGCCAGGCTGGAGTGTGTGTGAGATCTTGGCTTACTGC	66386
QY	2424	-----	2423
Db	66387	AATCTCCACCTCCCTGGTTCAGCGATTCTCCTGTCTTAGCCTCCCAAGTAGCTGGGATT	66446
QY	2424	-----	2423
Db	66447	ACAGATGTGCATCACACGCCCGCAGCTACTTTTTTGTATTTTTTAGTAGAGATGGGTTTCA	66506
QY	2424	-----	2423
Db	66507	CATGTTGGCCAGGGGCTTGAACCTCCTGACCTCAGGTGATCTGCTGCCCTCGGCCTCC	66566
QY	2424	-----	2423
Db	66567	CAAGTGTGGGATTACAGCGGTAAAGCCCGCCAGCCAGCAACAATTTGTTAACAATT	66626
QY	2424	-----	2423
Db	66627	CATTTTTCAGGCTTTTCTCAACCATCTATCTAAATTAAGCCCTTCGTGGCCCTATTTTT	66686
QY	2424	-----	2423
Db	66687	TTTTTTTAAACAACAACATCTGGCTTATTTATTAGGCACGTGTCTCTAAAACCTCTCAAGG	66746
QY	2424	-----	2423
Db	66747	ATTAACATTATCAATCTCACCAATAGCCCTCTAAGGTACTCTTACTTGTCTTATTTTAGA	66806
QY	2424	-----	2423
Db	66807	TCTACGGGGAAATTTAGGCACAGAGGGGTGAGGGAACCTTCCCCAGGATTGTACAGCTGG	66866
QY	2424	-----	2423



Db 52432 GGGAGGGGACAGAGTCAGTACCAGAGTCGGAAGGACAGGGTGGGAAGGGGAACCTG 52491  
QY 301 AGTCAGGAGACTTGGCTGGCAGCGCTGCCCTGCCAGCAGAGCGCTGACAGTGGTTTCCA 360  
Db 52492 AGTCAGGAGACTTGGCTGGCAGCGCTGCCCTGCCAGCAGAGCGCTGACAGTGGTTTCCA 52551  
QY 361 TGAACCTGCATCCCTGCTGTGGGCTGGGACAGGGCCACTGACACAGTATCGGAGCAGAAA 420  
Db 52552 TGAACCTGCATCCCTGCTGTGGGCTGGGACAGGGCCACTGACACAGTATCGGAGCAGAG 52611  
QY 421 GGGGAAAGGACAGAGGAGATCCAACTCTGCCAGTTAGCAGCTGTGTGGCTTTGGGCAT 480  
Db 52612 GGGGAAAGGACAGAGGAGATCCAACTCTGCCAGTTAGCAGCTGTGTGGCTTTGGGCAT 52671  
QY 481 GTTACTTAACCTCTCTGAGCCTCATTTATTTTCATCATATAAATGAAAATAAAATAATAC 540  
Db 52672 GTTACTTAACCTCTCTGAGCCTCATTTATTTTCATCATATAAATGAAAATAAAATAATAC 52731  
QY 541 TTTTGTCAAAGGCGCAATTTGAATATTTAGATCTCTCAGATAATGCCCTGGCTTTGAGCAA 600  
Db 52732 TTTTGTCAAAGGCGCAATTTGAATATTTAGATCTCTCAGATAATGCCCTGGCTTTGAGCAA 52791  
QY 601 ATGGTAGCTGGAGGAAAGGAGAGAAACCAAGTCAGCAGCTGAAGGATTTTCATATT 660  
Db 52792 ATGGTAGCTGGAGGAAAGGAGAGAAACCAAGTCAGCAGCTGAAGGATTTTCATATT 52851  
QY 661 AGAACTGCTCTGGACCTATCTGGCAGATGCGAAGCACACACACGAGGGGCGATGGAT 720  
Db 52852 AGAACTGCTCTGGACCTATCTGGCAGATGCGAAGCACACACACGAGGGGCGATGGAT 52911  
QY 721 TTGCCCCGCCCTTAGACATGTGTCTCTCTCTGGATCCTTGGTCCAGGTGCCCTACC 780  
Db 52912 TTGCCCCGCCCTTAGACATGTGTCTCTCTCTGGATCCTTGGTCCAGGTGCCCTACC 52971  
QY 781 TGAGCTCAGGTGAATGTGGCAGCAGAGCCCTCTGGTGGTGAATGCTGTGGCGCCC 840  
Db 52972 TGAGCTCAGGTGAATGTGGCAGCAGAGCCCTCTGGTGGTGAATGCTGTGGCGCCC 53031  
QY 841 GTGCTCCTCGGTGACACAGGGACCTCACAAATCCCTCCACGGTCTCTCTCATGTCT 900  
Db 53032 GTGCTCCTCGGTGACACAGGGACCTCACAAATCCCTCCACGGTCTCTCTCATGTCT 53091  
QY 901 CCCAGCCTTATTTCTGCTCTCTCTCTCTCCAGCCCGGAACTTTGCCCTGTTGGCTCCC 960  
Db 53092 CCCAGCCTTATTTCTGCTCTCTCTCTCTCCAGCCCGGAACTTTGCCCTGTTGGCTCCC 53151  
QY 961 CAACAGCAGCAGCCCTTCTCTGGCAGCAGCTGTGCCATCCAAAGTTGGGGATAA----- 1014  
Db 53152 CAACAGCAGCAGCCCTTCTCTGGCAGCAGCTGTGCCATCCAAAGTTGGGGATAAAGTTG 53211  
QY 1015 ----- 1014  
Db 53212 GTGGTCTGTCCGGCTGGGACAGCCCGACATCTGCACCCTGCTGTCTCTGCCCTCTCTG 53271  
QY 1015 ----- 1014  
Db 53272 TCCTGCTGTGCTACTCTTGACCTCGGTGTGCTGGGCAAGGTGGCAGCTGTACTCT 53331  
QY 1015 ----- 1014  
Db 53332 CAGGCTCTGTGTTCCAGGCTGCTGGCTAGATCTGCTCTCTACCTGCCCTCTTTTGTGCTCA 53391  
QY 1015 ----- 1014  
Db 53392 GGGCTCCCCACCTGCAGCTCAGCCTCTTGGGATCCCTCCACCACTTACTGCAATAGCC 53451  
QY 1015 ----- 1014  
Db 53452 GCCCTCTCCCTCTGGGTGGAGATCAGGAGCCCTTCCCACAGCTCAGTCTGGTCTCCT 53511  
QY 1015 ----AGTCCCTATGACATCTTCCGGCCAGACCACTAGTGTGACCCCTGCAGTCCCTG 1070  
Db 53512 CTTCAGTCCCTATGACATCTCCGGCCAGACCACTAGTGTGACCCCTGCAGTCTGCTG 53571

QY 1071 TGACAGCCTCCGTGAGAGGTGATGGCAGCGTTGGCCACAGGAGTGGCTGGACCAAGG 1130  
Db 53572 TGACAGCCTCCGTGAGAGGTGATGGCAGCGTTGGCCACAGGAGTGGCTGGACCAAGG 53631  
QY 1131 GGCAGGTCTGGTGAAGGTCAATTCTGCAGGT----- 1162  
Db 53632 GGCAGGTCTGGTGAAGGTCAATTCTGCAGGTGGTGTGTTGTGCCCTGGATAGACCCA 53691  
QY 1163 ----- 1162  
Db 53692 AGGAGGTGGCCCCCTCGGATCTGCGCCAGGTCCCCAGTCAAGATCATTTGTATCATTT 53751  
QY 1163 ----- 1162  
Db 53752 GTCATCTTTCTGGTCTTCTCAGTGTGAATGATGGCTAGCATTAATGGAGGTGGAGTGC 53811  
QY 1163 ----- 1162  
Db 53812 GTCGTTCGAAGTGCATTTTCATGCACTGTGTAAGAGCATGAGCTCTGGAGCCTGCTGCTT 53871  
QY 1163 ----- 1162  
Db 53872 GCATTCGSCACCAGCCCTTTAGCTCACCATCTGTGTCTCTGSCAGGTACTTTCATCC 53931  
QY 1163 ----- 1162  
Db 53932 CTCTGTGCTCAGTTTATCATCCATAAATGGGAATAGTAGAGTACTTGCCTCCTGGAG 53991  
QY 1163 ----- 1162  
Db 53992 GAATGTGAGGATCAATTTAGTTCATCTATGAAGCAATTTAGAAATGGTGGCCGGCACATA 54051  
QY 1163 ----- 1162  
Db 54052 GTGATACATAAGTATTAGCTGCTATTTATCATCATTTGTGTGTAGTCAATTAATATGA 54111  
QY 1163 ----- 1162  
Db 54112 ATTAATAACATCTCATGAGATACAGGTACTTTTATCCATATTTCAGACAAGAACACTGA 54171  
QY 1163 ----- 1162  
Db 54172 AGCTCAAAGGCATGAGCTATTCTCAAGCTCACACAGTGAGAGTAGCTGGTCTTGGAAAC 54231  
QY 1163 ----- 1162  
Db 54232 TTAAGTAGTCTTCATTTCTTTAGTCACTCAGCAAAACATTTTGGAGGATCAGCTATGAGCC 54291  
QY 1163 ----- 1162  
Db 54292 AGCAATATGTTAGGAGCTGGAGATACACAGCAGGTAAACAGGTCAAGTTGATGGTTAA 54351  
QY 1163 ----- 1162  
Db 54352 GAGCATAGCAGGTGGACTCCAGACCCCGTGAAGGCATCTTAGGCTCAACCATTTACTAGCT 54411  
QY 1163 ----- 1162  
Db 54412 GTGTCATGCTGGGCAAGTTGCTTAACCTCTCTGAGCCCTGCATTTTCCCTCACCTGTGATG 54471  
QY 1163 ----- 1162  
Db 54472 AGGACTGTAATTGTATCTACCCACAGGTTGCAANTGGCTAAGTGAGCTAATGTGTGTAAA 54531  
QY 1163 ----- 1162  
Db 54532 GCACCTAGCACAGGCGCTGCCAGTCAGTGTGTGAGAAACATGGCGGCTCAGGAGTATTAA 54591  
QY 1163 ----- 1162  
Db 54592 ATGGGCTCCAGAGAAACCTGGAACATTTCAAACCACCTGTTCTCTCGGAGGGCAGGGCT 54651

Qy	1163	-----	1162
Db	54652	TGACAGCTGGAACCCAGGCGAGACAGAATTAGGGCGTTCAAGAAGTGGGATGAGAAA	54711
Qy	1163	-----	1162
Db	54712	AGAAAGCCCTTCCCTTCAGGAAGTGGGAGAGATGGTCACCTGTGTGCCCTGG	54771
Qy	1163	-----	1162
Db	54772	GAAGCACTGCCCTCTGCTGCCACCTGGTGGTTGCAGTTGCCCAAGGTCATGTTATT	54831
Qy	1163	-----	1162
Db	54832	GAGACCTACTATGTGCCAGGCACGTGTTTAGAGCACTGATCTCCGAAGCACTTGGATCGA	54891
Qy	1163	-----	1162
Db	54892	CACCCATGTCAATAACCAACATTTAATTTAAACCCACACCCCACTGTGTGAATATTGTT	54951
Qy	1163	-----	1162
Db	54952	TGTAAGTTAATACATATATTACTACATTAAATATCATATAAAGATAGATAAAATAGAAA	55011
Qy	1163	-----	1162
Db	55012	TTGATGGAGTAGAAATGCAAAAGCAGGTAGAAAAGTAAACGTAAGTAGAAGACTCATAT	55071
Qy	1163	-----	1162
Db	55072	TTTCCCAGGCACATGGATGATCTGATGTACCTTACTTTTGGAGGCCACTGCTTAGGGAC	55131
Qy	1163	-----	1162
Db	55132	TGGGACTCAAGCACAGTCCCAGTCCATGAGGAGCTGATGAAATCAACACCAAGGCTTA	55191
Qy	1163	-----	1162
Db	55192	TATAAGACACTTCCCAATTTTCAAAGGGCTTTTATACATAGCATGTACTTATAGTACTA	55251
Qy	1163	-----	1162
Db	55252	TTTATATACATATTTTATTTGACTTATGAATAGTTGGGCAAGTCTTATGTCTCCAT	55311
Qy	1163	-----	1162
Db	55312	TTTACCAGGGAAGAGTGAGGCTGAGGAGGCTCAGACCCGCCAGGTTCTTCTCTGAC	55371
Qy	1163	-----	1162
Db	55372	TCACTGAGAATCTTTCCTCATCCTCTTGGATGTGCTTCCCTGGGCTGCCGTGGGTGG	55431
Qy	1163	-----	1162
Db	55432	GCATATGCACCTGTGTATTTCTGAGACCAACCCAGGACTTCAACCCCGCTACTAGGAGAA	55491
Qy	1163	-----	1162
Db	55492	CAACCTCTCAGCCTCCCAACACACACCTCCACCCCTGCATCCAGCTGGTCCCGGCCTCC	55551
Qy	1163	-----	1183
Db	55552	CTCCCTTCCCCCAACCCAGTCCGCCCTCTGTGTCTTTTGCAGATGCCATTTGGCTTGCAGCCA	55611
Qy	1184	GATGCCCGTGGTGGCCACATCTCTGGGGCTCAATGAGGCTCTCTTTGTCACACCCA	1243
Db	55612	GATGCCCGGTTGGCCACATCTCTGGGGCTCAATGAGGCTCTCTTTGTTGTCAACCCA	55671
Qy	1244	CAGGAAGTGCATGAGCT-----	1260
Db	55672	CAGGAAGTGCATGAGCT-----	55731
Qy	1261	-----	1260
Db	55732	TTTTAGTGTGGCAGTGGTGGATTCTGGGAGGGTCCAGGAGAGAGGAGGGGCG	55791
Qy	1261	-----	1260
Db	55792	CTGGCTCTGGCTGCTGTGGTTCCTCAGCACAAAGGAGTGGGCCCTCAGCTGATGGGG	55851
Qy	1261	-----	1260
Db	55852	AATTCCCAAGATAGTGCAGGCGCAGGGCTGGTACCACTGGTTGGGAGCTCCCAAGGAGAA	55911
Qy	1261	-----	1260
Db	55912	AGAGGAGACCTGCCCTAGTTAGGGTTCCCCAGGACAGAGAGGCCCAAAAGAGGGGTC	55971
Qy	1261	-----	1260
Db	55972	TCAGCACTGGGGAGCCCTATCTCCAGCTGCTATAGCCCCCTAGAGACCCCTCTACTCCCA	56031
Qy	1261	-----	1260
Db	56032	CTCTGCCCTCCTAACCCCTCCTTAACACGAGCATAGATCTCTGGCCCCAACCCCTCTCC	56091
Qy	1261	-----	1260
Db	56092	CCCTACCCCTGTGCTTTCCCTGGATTCTCAGGCAGCCCTTGAGCACTCTCCCAACCCGC	56151
Qy	1261	-GATCCACACCTTGACCAGCTGGGGCCCACTGTGGCTCTGTGAGGGGCTGACACCTGG	1319
Db	56152	AGATCCACACCTTGACCAGCTGGGGCCCACTGTGGCTCTGTGAGGGGCTGACACCTGG	56211
Qy	1320	TGAGTGCACAGGACCTGGCAGGCACTGACGACACACGAGCTTGAGGCTCTTCAACAGTA	1379
Db	56212	TGAGTGCACAGGACCTGGCAGGCACTGACGACACACGAGCTTGAGGCTCTTCAACAGTA	56271
Qy	1380	TCCA-----	1383
Db	56272	TCCACCAAGTATGGGAGCAGAGCTGGGGGAGGAGACAGCGCGGGGGCGCGGCTCG	56331
Qy	1384	-----	1408
Db	56332	GCTCAGCACTCGCTGACCTCTCTGTGTACCCCAACCCAGGTGAGCTGATCTATGTG	56391
Qy	1409	CTGGGGCCCCAGCATCTGCGGGATGTCAACACCGCCCAACCTGGAGCGCTTCATGCGCGC	1468
Db	56392	CTGGGGCCCCAGCATCTGCGGGATGTCAACACCGCCCAACCTGGAGCGCTTCATGCGCGC	56451
Qy	1469	TTCAATGAGCTGCACTACTGGTGGCCACCGAGCTGTGTCTGTGCCCGCTGCGCGGCGCC	1528
Db	56452	TTCAATGAGCTGCACTACTGGTGGCCACCGAGCTGTGTCTGTGCCCGCTGCGCGGCGCC	56511
Qy	1529	CGGGCCCAAGCTCTCAGGAAGTTCATTAAAGCTGGCGGCCA-----	1569
Db	56512	CGGGCCCAAGCTCTCAGGAAGTTCATTAAAGCTGGCGGCCCAAGTGTCTGTCCAGTGG	56571
Qy	1570	-----	1569
Db	56572	GTAGGGCTGGCCAGAGTCCCGCGCTACTTTTCTTAAGCCCCCTCTTTGCTTAGTA	56631
Qy	1570	-----	1569
Db	56632	TGTTGCCAAATCTGCCACCCCTATTGTTCCCTGGGTCCCTGGAGGCTCTGTCCCTCCAC	56691
Qy	1570	-----	1569
Db	56692	CCCATCCAGCTTGGATCTCTGACAGAGGCTGGCTGGTGTGTCTGGGGGCACTGTAGGG	56751
Qy	1570	-----	1582
Db	56752	GTGGCTGCTTCCCTTACCCTTGAGGGTCTCTGGGTCTTCTCTCACAGCCCTCAAGGAGCAG	56811
Qy	1583	AGAAATCTCAATTCCTTCTTTGGCGTCATGTTTGGGCTCTAGCAACTCGGCCCATCAGCCG	1642



D	b	56812	AAGAACTCAATCTCTTTGCCGTCATGTTTGGCCTCAGCAACTCGGCCATCAGCCGC	56871	Q	y	1711	-----GGATCCCTCATGGAACCAACCGGGTATACCGACTGGCCTCGCCAAAGCTC	1759
Q	y	1643	CTAGCCACACTGGG-----	1658	D	b	57952	TTCTTCCTCCCTAGGATCCCTCATGNAACCAACCGGGTATACCGACTGGCCTCGCCAAAGCTC	58011
D	b	56872	CTAGCCACACTGGGAGGTAACTGTGCTGGAGGGCCCCCTCCTGAGGTCAAGCCCTCA	56931	Q	y	1760	TCCTCTCCTGTATCCCTTCATGCCCTTCTTCTCAA-----	1797
Q	y	1659	-----	1658	D	b	58012	TCCTCTCCTGTATCCCTTCATGCCCTTCTTCTCAAAGGTAAACAGGGCTTCTGTGCCTC	58071
D	b	56932	GGCCCTCTGGAGTGTGTGATGGGCTGGGCTCCCCAGAGAGCCGCTCATCTGCCT	56991	Q	y	1798	-----	1797
Q	y	1659	-----AGGGCTGCTCACAAGTCCGGAAGCTGTACTCCGCCCTCGAGAGGTGC	1709	D	b	58072	CATCCCTCCATTCCGCCCTTCTCTGCTCCATCCGCCCATTTCCGCCCTTCTGCTCCATCC	58131
D	b	56992	CCTTTTCACAGCGGCTGCTCACAAGTCCGGAAGCTGTACTCCGCCCTCGAGAGGTGC	57051	Q	y	1798	-----	1797
Q	y	1710	T-----	1710	D	b	58132	CCCATCCCATGCCTATCTGTGTGTGCCACCCACTCTGTGTGGAGAGATTATACCTCAAGTGC	58191
D	b	57052	TGGTAGTGTCCACCCTGCCCGGCTGGCTGTCTGTCTAGGATCAGTGGGCTCGGCCCTGC	57111	Q	y	1798	-----	1797
Q	y	1711	-----	1710	D	b	58192	TGATGCCCTCAGGAGTGCAGAGATGAATTAGGAGTTCTTAGACTGGAAGAAATGAAGACAT	58251
D	b	57112	CCTCCAGACACCCCTCACTCTTGGCTTCCCTGCGGCCCTCTACTCGTCTTTGTCACTTT	57171	Q	y	1798	-----	1797
Q	y	1711	-----	1710	D	b	58252	CCAGACAAATACGGGCTGCCCTTCAGGGCCTTAAGAGATACAAGAAATGCTGCTGGGGCTT	58311
D	b	57172	CAGGTTCCCAACCTCGGCCCAAGGCTAGCTCCAGCCTGTAGTTTGGGAGCTGGCTG	57231	Q	y	1798	-----	1797
Q	y	1711	-----	1710	D	b	58312	GGAGGGCCAGGCAGGGGCTCTATGGGTGAGTAGGCCAAGGGAGCCGTTATGCC	58371
D	b	57232	AGGAAGGGTGTTCAGCACTAGGATAGGGTTGCACGGTGCATCCTGGCCCTCAGTGTGT	57291	Q	y	1798	-----	1797
Q	y	1711	-----	1710	D	b	58372	TTCACTTTTCTGGGCTACAGGAGGCGAGAAGTTTGGGAGCTATGAACAAACCCATCT	58431
D	b	57292	GCATGGGGCAGGAGATCCTGTGTGAAGACTGGGCTGGAGCATGTGGTGTCCAGTCTCG	57351	Q	y	1798	-----AGACATGACCTTCATTCATGAGGAACACACACTAGTGGAGATCTCATCAA	1851
Q	y	1711	-----	1710	D	b	58432	CTTGGACATGACCTTCATTCATGAGGAACACACACTAGTGGAGAAATCTCATCAA	58491
D	b	57352	GGTCTGAGTGCACGGCAGTGTACAGGGGCTCCAGAGCCCAAGGGCTGGCATGGAGCG	57411	Q	y	1852	CTTTGAGAAGAT-----	1863
Q	y	1711	-----	1710	D	b	58492	CTTTGAGAAGATGGTGTGAGTCCAGGGAGAGAGGCATTCTACTTAACATAGTTGGAGGA	58551
D	b	57412	CCTGTGTCAACAGGGCTGTCTGCCCTCAGGAACCTCGAGGGCTTCCGGGCTAGACC	57471	Q	y	1864	-----	1863
Q	y	1711	-----	1710	D	b	58552	CATGACTGTGCCCTGGGAAGGGCAGGGCTTGGAGCAGCTTAAACTTGTATGAATAAT	58611
D	b	57472	AGTAGAAGGCGAGGATAGATTGGGGTGGAACTCCCACTCCAGGAACCTTTGAGG	57531	Q	y	1864	-----	1863
Q	y	1711	-----	1710	D	b	58612	ATGAGGATGAATACTTACTGTGTATAGCCCTTGCCTTATTCCTACTGCAACTGGGTCTGC	58671
D	b	57532	ATTTTGGGGTTTGTACTATTCTGGAGAGAAGCAGAGAAGAGGTACTTTCATCAGCATAGC	57591	Q	y	1864	-----	1863
Q	y	1711	-----	1710	D	b	58672	CAGGTGCCAGCCTCAGAGCTCTACCATTCACAGAGAGCCCTTCCAGCCCTCTTCTCTC	58731
D	b	57592	CTGGAGCTCTTGAGAGAAATCCACCTCTGTGGGCTCAAGGGATTCAAAGGATTTACT	57651	Q	y	1864	-----	1863
Q	y	1711	-----	1710	D	b	58732	TAAGCTTTCTCTCTGGCCTCTGCCTTCTGTCTCTGCTGCTCCCGCTGGGCTCTGT	58791
D	b	57652	CTCAGAGAGAGAGGGAGGACACAGAAAGACAGAGAGGATAGAAAGGACAGAGAGGT	57711	Q	y	1864	-----	1863
Q	y	1711	-----	1710	D	b	58792	GGTGTGTGAGGCGAAGTACATGATGCCACATNAACCAAGGATTTACAGTCCCTGATC	58851
D	b	57712	GACAGTGACAGACTTTTCCAAGAAACCTGGGGGCCCTGTGACTAACTGCTGTGAATTTTC	57771	Q	y	1864	-----	1863
Q	y	1711	-----	1710	D	b	58852	CTTGGTTTCAGAGGGAGCTTGGCCTCCCTGCTGTCACAGGCAGGACAGGGTTTCTCCC	58911
D	b	57772	TCAGTGTCTAATGGAGGTTGGAAGCCCGCTGTTCGCCCTGTACAGAGCCCTGGGTGAGACC	57831	Q	y	1864	-----GAGAAATGATGGCCAGAGCCGCGGA	1889
Q	y	1711	-----	1710	D	b	58912	TCAGCAAGAGCTTATGCCCGGTGTGTCTCCGACAGAGAATGATGCCAGAGCCGCGGA	58971
D	b	57832	TGGGCTCAGGAGAGGTGAGTTGGGGCTCTGCACCTGCTGTGGATGGGCATGTGCC	57891	Q	y	1890	TGCTGCACCACTCGCGAAGCCACAAACCT-----	1918
Q	y	1711	-----	1710	D	b	58972	TGCTGCACCACTCGCGAAGCCACAAACCTTGTGTGAGAGGGGGTCCCGGGGTGGAGGT	59031
D	b	57892	CCTCCTGGTTGGGTCTGTGTGGCTTATGTGTGTGCAACCCCTCAGTGTGGC	57951					

QY	1919	-----	1918	
Db	59032	CCCCACCTTACATCTCTGTGAGGCTCCAGGCTGGCCCTGACTCCATGACCCCTCCCCA	59091	
QY	1919	-----GTGCTCTCTCACCACCTCAGAAAGCCGAGTTTCCCACTCCACGAGGACAGCC	1970	
Db	59092	CCCCCGAGTGCCTCTCTCACCACCTCAGAAAGCCGAGTTTCCCACTCCACGAGGACAGCC	59151	
QY	1971	AGTGGCGAGGATTTCCACAT-----	1991	
Db	59152	AGTGGCAGGATTTCCACATGTAAGTGGTGGCGATGGTGGGCGAGGAGGGGTG	59211	
QY	1992	-----	1991	
Db	59212	CTTATGTAGTTACCCATGCTGGCACATCTTAGGCATTGGCCATTGCCAGCACGGAG	59271	
QY	1992	-----	1991	
Db	59272	CCCGGCCCTTCCATACATGATGTTGATAATGTTTCAGCCTCTGTGCTCTGAGCCAGGGGC	59331	
QY	1992	-----	1991	
Db	59332	TCCTTCGGTCCCTCACCCGTGGGGTGGCGAGGACAGCCGCTTTTAGGAATTGGTGATGG	59391	
QY	1992	-----	1991	
Db	59392	GAAGTGGTTGGTGGTGGAGGGCAAGAAGGCAGATGTGATAGCTCTTGGAGGGG	59451	
QY	1992	-----GCT 1994		
Db	59452	AAAGTTGGGTTCCACAAAGGGGCATCAGTGCCTCCCTGACTACTCTCTCCACAGGCT	59511	
QY	1995	CGGAGCAGTCCCTGAGCACCCGAGTCCAGCCAGCACCTGGGCTTATGTCCAGCAGCTGA	2054	
Db	59512	CGGAGCAGTCCCTGAGCACCCGAGTCCAGCCAGCACCTGGGCTTATGTCCAGCAGCTGA	59571	
QY	2055	AGTCTATTGACAAACCGGGGAACCTCCCGCCTCTCCGAGAGCTGGAGCCATGAGGAG	2114	
Db	59572	AGTCTATTGACAAACCGGGGAACCTCCCGCCTCTCCGAGAGCTGGAGCCATGAGGAG	59631	
QY	2115	GGCTGGGACTGGAGCTGGAGCAGGCACTTGAGCCGGGAAGCCAGGCTGTCCCGGCC	2174	
Db	59632	GGCTGGGACTGGAGCTGGAGCAGGCACTTGAGCCGGGAAGCCAGGCTGTCCCGGCC	59691	
QY	2175	AAGATACTCACAGGCTGGCCACAGCTGGGCAGGCTCTCCGTGGAGTGGACTCGAGTCCG	2234	
Db	59692	AAGATACTCACAGGCTGGCCACAGCTGGGCAGGCTCTCCGTGGAGTGGACTCGAGTCCG	59751	
QY	2235	TGGAGCAGGAGTGGAGGCGCCATCCCTGTGTGATGACTGGCAGCTAAGGAGGACCTC	2294	
Db	59752	TGGAGCAGGAGTGGAGGCGCCATCCCTGTGTGATGACTGGCAGCTAAGGAGGACCTC	59811	
QY	2295	GGAGTGGACCCGAGCCAGGAATAACGAATGACCAAGGCCAAGGAGGAGGACAGAGAG	2354	
Db	59812	GGAGTGGACCCGAGCCAGGAATAACGAATGACCAAGGCCAAGGAGGAGGACAGAGAG	59871	
QY	2355	GGCCAGGAGTGGTGAGAGTGGAGTGGCTGGGACGTTGTGTGCAATAGAGAGTCTC	2414	
Db	59872	GGCCAGGAGTGGTGAGAGTGGAGTGGCTGGGACGTTGTGTGCAATAGAGAGTCTC	59931	
QY	2415	CACACCAGA-----	2423	
Db	59932	CACACAGATGCTTCCAGATTCTGTGCTCTGGCTTTGTGTCTCCAGCCAGGCTGCAGT	59991	
QY	2424	-----	2423	
Db	59992	TTATTTTACAGTGGACAGAGAGAGAGAGGCTGCATGTGTACCGTGTGTGGCAA	60051	
QY	2424	-----	2423	
Db	60052	GGCAGGGCTTGGCTGGGCGAGGGGCCCTGCTTTCTTCCACAGCTTCTTCCAAC	60111	
QY	2424	-----	2423	

Db	60112	AGCAGGCAGTGGGCTGCGGGCCTGTGCGGTGGTCCCTGAGGAGCTTTATTGTTACTGTC	60171	
QY	2424	-----	2423	
Db	60172	AACATAGTAGTATGTTTCCAGGCCAGCCAGAGTGGCGTGGCAGGAGGCTGAGGCCCG	60231	
QY	2424	-----	2423	
Db	60232	CCCTCTGGGAAGAGAGCTGTGGAGGAGAGCAGCCCCATGCTGGCAGCGGCCACAGCTGGG	60291	
QY	2424	-----	2423	
Db	60292	TCCAAGATCTGTATGCCACCCAGATGTGCCTCCAGGCTCTTGCCAAAGGCGGCTGGA	60351	
QY	2424	-----	2423	
Db	60352	GCCTGGAGCCCTGTGAGCAGCCAGGAGTGCATCAGCTCCCGTGGTGGTGCAT	60411	
QY	2424	-----	2423	
Db	60412	AGGACTTTACAGTCCAGATGCAACTGACAGCTTCTTCCCAACTGCAATCCCGCTTTTCC	60471	
QY	2424	-----	2423	
Db	60472	ACACTTGAAGCTGCTGCGCTGCTTGGGCCAGGCTTCTGGGGTGGCTTG	60531	
QY	2424	-----	2423	
Db	60532	TGATAGAAACAATGCTGAAGCTTCCGCGGAGAGCCCGTTCGCTTGTGAGGCCCAACAGAC	60591	
QY	2424	-----	2423	
Db	60592	TTCCAGGAATCAGGGTTTATCATCAGTGTGAGATGGTCCAGCAAGCTCTGGTCATA	60651	
QY	2424	-----	2423	
Db	60652	CGAAGCTCTCTTCCCTGCCCCCTCAGCACTTCCCTAGGAACAGCACTACTGCCAGGAC	60711	
QY	2424	-----	2423	
Db	60712	GCCTCTTGGCAGCAGAGCTCACCCAGGAAGCTCCAGGAGACTCCACCCTCTTGCCCTGCT	60771	
QY	2424	-----	2423	
Db	60772	ATTGCCCTGAGTCTTGCAGCAGGAGGCACTTGTCTGGCCAGAGAGAACTCATGGCCC	60831	
QY	2424	-----	2423	
Db	60832	CTGGCATGACTCTCTGAGTAGGTATTGAGGCTGCAGGGCCCTTGGGCGTCCAGAGGCACTG	60891	
QY	2424	-----	2423	
Db	60892	GTATGGCCCCCTTGCACCTTCAGCCCCATGGATGGATACACAGGCTGCTGCTTCCAGA	60951	
QY	2424	-----	2423	
Db	60952	AAGGGTCAGAGCCCTTTAGCAGGAGGAGCAGCAGCTGGGCTTAGACCTCAGGTCACCTAAG	61011	
QY	2424	-----	2423	
Db	61012	TGAATCTGAGCAAGTCAGTGAACAGTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT	61071	
QY	2424	-----	2423	
Db	61072	ATGATAACGCCCATACAGCGCTTAGTGACAAACACATAAACTGTAGTCTCTCTCTCTCTCT	61131	
QY	2424	-----	2423	
Db	61132	AGCAGAGGTGACAGCCAGGCGAGTCTCTGTGCTATCCAGGCTGGTAGGGGGCAGCCTC	61191	
QY	2424	-----	2423	

Db	61192	GCCTCAGTTAGGGCTGAGGGAGAGACTGAGTGCAGCAGATGGCAGTGGTAACCAACC	61251	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	62332	AAAAGGAAGGCAGACCTGAGATCCGGCACCACCCCATCCCTCCACTCAGCACTGAGTTAG	62391
Db	61252	AGTTCCCTTGCCGTGGTGGGACACAGGAGAAAGCAGCACTCTGGAAGTGAAGT	61311	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	62392	AGCTGGGTGGGGCATGCTCGCTTCACACGCTGCTTATGCTTCTGTGTCTCCAACAG	62451
Db	61312	CAGGACAGAGGCTCAAGCTGGGTGAGTCAGAGTCCGGGGCTTCTTTTCATCAAC	61371	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	62452	CCCTCAGCCTCTGGGTGCTCTCTTCCCAATAGTCACAAGATTTACCATGATAAATAG	62511
Db	61372	CCATTTGTCTGTGTCTCTCGCAAAAGCCAGCCAGCCGCTGCCCTTCACCGTTCT	61431	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	62512	GTTAAGACTTGAATGGTGTTCATCTCTTTCATCTTCACCTGTCTCACGTTAGGTTA	62571
Db	61432	TCAGACTTAGGGTGAGCCAGCCAGCGACACACAGAAACCAAGTGCACGGGGCGG	61491	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	62572	TTTTTATCTGTATGACAGATAGGTACTACAGGTATTTTACTCTGGTTTACAGTCAAA	62631
Db	61492	GTGTCTCCACCAGCATTTCTCTCTGTGTCACATCTAGTCTCTGATGGACTTCTCCCTC	61551	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	62632	CAAACTGAGGCACAGCAGGTTTGCCCAAGGTCACATAACTGCTTAATAGCAGGTAGAC	62691
Db	61552	CTCCTTGGACCATCAGCTTTACAGTCCAGACCACCCTGCAGCACCCGCTGCTCCAG	61611	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	62692	AGGTGAAGTAACTGGATGTGTATCAGCCATGCCCTTTCCTCCATGCCCGGCACTCCCA	62751
Db	61612	CTGCCCACTCTCGGGCAGGATGGCTTTTGAGCCTGTGGGAGAGACCTTGCCAGAGAA	61671	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	62752	TGACAGCTCTCTGAATCCCAACATTTATCTTTTGCAGGATTAGACCAAGCATATAA	62811
Db	61672	TGGTCCCGCAGGCAGCAAGAGCACAGACTCTGGAGCTAGAAGAGTTGGCGCCAGG	61731	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	62812	TTCTTTTCCCTCTCTCCATCCACATTTCTTTTACGTACTTACTATAGGCCT	62871
Db	61732	GGCCAGGCCACTCCAGAGACAGGAGGCCCAAAAGCGGGAAGGCTCCATGTACGG	61791	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	62872	TGTAGGGGCTGTGTGAACAAGACAAGCCAGGTGCTGTGGCTGATGCCCTGTAAATCCCA	62931
Db	61792	TGGCCCCATGTGGGAGTTTGTGCTTCTCTCTCTGTCTCTCTCTCTCTCTCTCTCTCT	61851	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	62932	TGCTTTGGGAGCTAGGCATTTGAGACCAACCTGGTAAACAAGCAAGACCCGGTCTCTA	62991
Db	61852	GTGTGGGCAGGAGCATCTCTGTGTTCCTAGCAGCCAGGCTGTGTGAGGGGCTC	61911	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	62992	TAAAAATAAAATTTACCCGGTATGGTGTGCACCTGTAGTCTAGTCTACTTTGGGAG	63051
Db	61912	CCATTTTGTCTCAGCTCAAGAAAGGCCACAAAGGAGGGGCTCATGGGACTGTG	61971	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	63052	GTGAAGTGGGGGATCAGTTGAGCCAGGAGTTGAGGTTTACAGTGAGCTATTAAGTGA	63111
Db	61972	AGAAGAGGTGTGCAAAAGGAGTGTGGCCCTAGATCAGTCTTTTAAAAAGCCTCTGT	62031	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	63112	CTCGTCTTCTTTTGGTGACAGAGAAAGACTCTGTCTCTAAAAAAGAAAAACCAAGAC	63171
Db	62032	ACCTGAAAGAGGTCAAGCAGAGAGGAATGGTGTGTGTCTCTACCGGCGAGACAG	62091	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	63172	TGGTAGTCTTGCCCTCATGGGGTCAATCATCCAGTAGGCAGCAAGACTATCAGTAAC	63231
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Qy	2424	-----	2423	Db	63232	AAAAGATCCGAGGGATAAAGTCCAGAGCAGAGCAATGCCAGGGCTGCAGCATCTCAGTG	63291
Db	62152	CCCTGTGAAGCCTGAGGAGGCTGTGCCAGGCTCAGCCCTGACTGTGGGGTACACAC	62211	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	63292	CTTACCCCAAGCATTTAAGGCCCAAGAGCTGCTCCCTTGGAGCATAGTTTCATAGCCCCAG	63351
Db	62212	CAGGAGGGCCAGCCTCCCCACACAGCGGGTGGAGTGGTCACTGAGCCAGCACCCTCT	62271	Qy	2424	-----	2423
Qy	2424	-----	2423	Db	63352	CTCCCTGAGCCTGCACAGCTCTGTCCCTTGAGATGGGATGCTCTCCACTCATCAGCTG	63411

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Db	63532	CTTTCCAAATGTGTCTCTAGTAGTACCCCAACCCACACTCAGTATTCAGCTCCTCCTACATCT	63591
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Db	63592	GCCAGGCCATGGATCTATACTAAGTAAGTGTCCACCGGCCCTGCCAGTTGCTGCAGCC	63651
Qy	2424	-----	2423
Db	63652	AATTCAGGCACCCCTCTCTCAGATCTGGACTCTTCAAGACCTGAGCTGTAGCCTTCCTG	63711
Qy	2424	-----	2423
Db	63712	CAACACAGTCTGTGGCATCTGAGGTGAAGGGCTTGCAGGCCAGGGGAGCTGACTG	63771
Qy	2424	-----	2423
Db	63772	CCGTCCCTCCAGTGATGATAAAACTGGATCATCTCGAAGCGCGAGTCTGACTCAGCTG	63831
Qy	2424	-----	2423
Db	63832	CACCTAGAAAGAGTCTTCTCTCCATGCCCTGGGGCCCTTCCGGAGCAGGTGCTCGATG	63891
Qy	2424	-----	2423
Db	63892	GGGTACGGGGAGGATGCTCCTGTGGTAGCTGTAGTAACACAGAGGAGGTGGTGACTCC	63951
Qy	2424	-----	2423
Db	63952	CAGAAGAAGACAGAAGGTTAAGCTCACAGTTTGACCCACTTTTTGTGCTAGGAGGTG	64011
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Db	64012	GGATCTGGTTGTCATGTGTGTGGACTGTGACCAAGTGTGCACCTGGACACGGGAGC	64071
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Db	64132	TGGATCTTGTCTTCTACTGGAGTGAGTTGTAGCAGCTAGAGCTGTTTTGGACTGCTG	64191
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Db	64192	AATGGAGGGCTGACTGGCTTCTTGGCACTTAGGGATCTTAGGGATCTAGCAGAGGGTAG	64251
Qy	2424	-----	2423
Db	64252	AGACAGGGTCCCTTTTAGGGGGCCATGACACAGGATATTTAAGCTTACTTGACCACC	64311
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Db	64312	CAGAAAAGTCCCTGTCCACCAGAGTATAAGGCAGCATAGGTGGATCCCATAGGTGGCA	64371
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Db	64372	GTGTGTGGGCAGGGGGCCCTCCATCTCTCAGCAGCCCTGGCAAGCAAGCCCTTCC	64431
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Db	64432	TCCTCCCTGGGCTCACTTTCCCATTTAGAAACAGGAATTTGGATGAGAGTCTTTGAGG	64491
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Db	64492	ATCTATGAATTTGGCAACTCAGGCTGTCAAAGGGGAAGGGGTGTAGGCCCTTTAAGCA	64551
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Db	64612	CTGTTTTATTGGAGGGGCTTCTCAGAGCTCCCTACCCCTGAGTGTGTCTCCCTGTACCTG	64671
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Db	64672	CTTGAGTGCATGACTGCTTGCTTCTACTCTTTGAGTTCTAGTTGTCAGTAGAAGGCC	64731
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Db	64792	ATTTCTAATGGTCACTTTTAAAGAATAGAAAAGAGAGCCCTCGAGCAATGCATTAG	64851
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Qy	2424	-----	2423
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Db	65272	AAACAGGTGTTCTTCTTGGCACCACCAACACAGGTGAGTTAGACAGTGGGACTCATCAAGG	65331
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Db	65332	GCCATCCCCAAGACTTGAAAATACCGAGGCTGCACGTTTTTTTAAATGAAAATATTATCTT	65391
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Db	65452	TCATAATTGTCATTTTCAGAACTTTTTTTTTTTTTTTTGTGAGAGGAGTCTTGCTCTGTC	65511
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Db	65512	GCCCCAGGCGGAGTGCAGTGGCGGATCTCAGCTCACTGAAAGCTCCACCTCCCGGGTTC	65571
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Db	65632	CCAGCTAGTTTTTTGTATTTTAGTAGATGAGATTTTACCACATGTAGCCAGGATGGTCTC	65691
Qy	2424	-----	2423
Db	65692	AATCTCTGACCTCGTGATCTGCTGCTCGCTTGGCCTCCCAAAGTCTGGGATACAGGCAT	65751
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Qy	2424	-----	2423
Db	65992	CATGTTGCCAGCGGGTCTTGAACCTCTGACCTCAGGTGATCTGCTGCTCGCTCGCCTGCC	66051
Qy	2424	-----	2423
Db	66052	CAAAAGTCTGGGATTACAGGCGTAAGCCCGCCGCGCCAGCACAGACATTTTAACATT	66111
Qy	2424	-----	2423
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Db	66172	TTTTTTAACACAACATCTGGCCTTATTTATTTAGGCACCTTTCTAAACCTCTGCAAGG	66231
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Db	66292	TCTACGGGGAAATTGAGGCACAGAGGGGTGAGGAACTTGCCAGGATTTGACAGCTGG	66351
Qy	2424	-----	2423
Db	66352	TGGTGGCAGAGCTGGGATTTCAAACCCAGGCGAGCTTGGCTTTAGAACTCAACAGCTGAGC	66411
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Db	66412	CTCATGCTCTGCTGCCAGAGATCTGGCTGTAGACGCTCTTTATTTATGCTTTTCTTCTCT	66471
Qy	2424	-----	2423
Db	66472	CCAGCTGCTGAGCTGCTCACCTTTATCCACTTTTCTTATCACAGTGTCTGGCACACAGT	66531
Qy	2424	-----	2423
Db	66532	GCATTCAAGTGTATTGTTCAGTGATGAAGGAATGAGAAAGGGGGAATTTCCC	66591
Qy	2424	-----	2423
Db	66592	ATAACCCAACTACCTTAGCACAAATAATTATGGTAATTTTGACAGATTGTACATTCAAT	66651
Qy	2424	-----	2423
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Qy	2424	-----	2423
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Qy	2424	-----	2423
Db	66772	TCAGCTGGGGTTGGCCTCGGGCTGTCTCTCTCTGTATCTGATCTGCGCCTTACTCACTCCCTC	66831
Qy	2424	-----	2423
Db	66832	GCTGTCTCTGTGAACCTCCTTATCGCTGTCTGCGCTGTCTTGGCCACATCTCTTGTCTCTC	66891
Qy	2424	-----	2423
Db	66892	ATTGTGCTCTAGACCCTCTTTAAAGCCAGTGGAGTTTGAGGACATGCAATAGTAATTTT	66951
Qy	2424	-----	2423
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Qy	2424	-----	2423
Db	67012	ATGTTCTTTGGATCCTAAAAAGCAGGATACAGCTGAGATCTCTGTGACACTGTGGA	67071
Qy	2424	-----	2423
Db	67072	TTCAGAAACTCTCGAACTGTCCAGTCCCTGTGTGGTGGCTGCCCCCTTTGTAGGGTGGTCCC	67131
Qy	2424	-----	2423
Db	67132	AAGGTGCTTGGGGTTTAGTCTCTCTAAATTTCCATTTAGGCCCAACAATAACACAA	67191
Qy	2424	-----	2434
Db	67192	TATAGCTAAAAAATAAAAAA	67209

RESULT 5  
AC004241

LOCUS	AC004241	Homo sapiens, *** SEQUENCING IN PROGRESS ***	158111 bp	DNA	linear	HTG 01-APR-1998
DEFINITION	AC004241					
ACCESSION	AC004241					
VERSION	AC004241	GI:3004524				
KEYWORDS	HTG: HTGS, PHASE1.					
SOURCE	Homo sapiens (human)					
ORGANISM	Homo sapiens					
REFERENCE						
AUTHORS						
TITLE						
JOURNAL						
REFERENCE						
AUTHORS						
TITLE						
JOURNAL						
COMMENT						

Unpublished  
2 (bases 1 to 158111)  
Submitted (28-FEB-1998) Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA  
[WARNING] On Apr 4, 1998 this sequence was replaced by a newer version gi:3023023.  
On Apr 1, 1998 this sequence replaced gi:2995474.  
\* NOTE: This is a 'working draft' sequence. It currently consists of 10 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence



Db	54387	GCATTGGCACCAGCCCTTTAGCTCACCATCTGTGTCTCTGCGAGGTACTTCATCC	54446
Qy	1163	-----	1162
Db	54447	CTCTGTGCTCAGTTTATATCATCCATAAAATGGGAATAGTAGGAGTACTTGCTCTCTGGAG	54506
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Db	54507	GAATTGTGAGGATCAATTTAGTTTCATCTATGAAGCAATTTAGAAATGGTGGCCGACATA	54566
Qy	1163	-----	1162
Db	54567	GTGATACATAAGTATTAGCTGCTATATTATATCATCATTTGTGTTTAGTCATTTAATATGA	54626
Qy	1163	-----	1162
Db	54627	ATTAATACAAATCTCATGAGATACAGGTACTTTTATTCCTATTTTCAGACAAGAACACTGA	54686
Qy	1163	-----	1162
Db	54687	AGCTCAAGGGCATGAGCTATTCTCAAGCTCACACAGTGAGAGTAGCTTGTTGGAAC	54746
Qy	1163	-----	1162
Db	54747	TTAAGTAGTCTTCATTTGTTTAGTCACCTCAGCAAAACATTTTGGAGTACGCTATGAGCC	54806
Qy	1163	-----	1162
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Qy	1163	-----	1162
Db	54867	GAGCATAGCGTGGACTCCCGAGACCCGTGAAGGCATCTTAGGCTCACCATTTACTAGCT	54926
Qy	1163	-----	1162
Db	54927	GTGTAGCTGGCAAGTTGCTTAACCTCTCTGAGCCTGCATTTCTCACCTGTGAGATG	54986
Qy	1163	-----	1162
Db	54987	AGGACTGTANTGTATCTACCCACAGGTTGCAATGGCTAAGTAGCTAAGTGTGTAAA	55046
Qy	1163	-----	1162
Db	55047	GCACTTAGCACAGGSCCTGCCAGTCAGTCTGAGAACATGGCGGCTCAGGAGTATTAA	55106
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Db	55107	ATGGCCCTCCAGAGAACCTGGAACATTCAAAACCACTGTTCTCTGCGGAGGCGACGGCT	55166
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Db	55167	TGACAGCTGGAACCCAGGGCAGACAGAAATTTAGGGGCTTCAAGAAGTGGGGATGAGAAA	55226
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Db	55227	AGAAAAGCCTTCTCCCTTCAGGAAGTGGGAGAGATGTCACCTGTGTGCCCTGCCCTGG	55286
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Db	55287	GAAGCACATGCCCTCTGCTGGCCACCTGTGTGAGTTGCAGTTGCCCAAAGGTCTATTTATT	55346
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Db	55347	GAGACCTACTATGTGCCAGGCATGTTTATAGACACTGATCTCCGAAGCACTTGGATCGA	55406
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Db	55527	TTGATGGAGTAGAAAATGCAAAAGCAGGTAGAAAAAGTAAACCTAAGTAGAGAGCTCATAT	55586
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Db	55587	TTTCCCGAGGCACATGGATGATCTGATGTACCTTACTTTTGGAGGCCACTGCTCTAGGGAC	55646
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Db	56007	CAAGCTCTCAGCCTCCCAACAGACACCTCCACCCTGGCATCAGTGTGCTCCCGGCTCC	56066
Qy	1163	-----GATGCCATTGGCTTCGACGCA 1183 	
Db	56067	CTCCCTCCCCCAGCCAGTCCGCTCTGCTCTCTTTGGAGATGCCATTTGGCTTGGCTTCAGC	56126
Qy	1184	GATGCCCTGGTGGCCACATCTCTGGGGCTCAATGAGCGTCTCTTTGTTGTCAACCCA	1243
Db	56127	GATGCCCTGGTGGCCACATCTCTGGGGCTCAATGAGCGTCTCTTTGTTGTCAACCCA	56186
Qy	1244	CAGAAATGCATGAGCT----- 	1260
Db	56187	CAGAAATGCATGAGCTGGTAGGACCAGGCAGGGTGCCAGGGGCCAGGGAGAGATCTA	56246
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Db	56307	CTGGCTCTGGCTGCTGCTGGTCTCTCAGCACACAAAGGAGTGGGCTTCAGCTGATGGGG	56366
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Db	56487	TCAGCACTGGGAGGCCCTATCTCCAGTGTCTATAGCCCCCTAGAGACCTCTACTCCCA	56546
Qy	1261	-----	1260
Db	56547	CTCCTGCCCTCCTAACCCCTCCTTAACACGAGCATAGAGTCTTTGCCCAACCCCTCTCC	56606

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Db	56607	CCCTACCCTGTGCTTTCCCTGTGATTCCTCAGGACAGCCCTGAGCACTCTCCACCCGC	56666
QY	1261	-GATCCACACCTGACCACTGGGCCACTGTGGCTCTGTGAGGGCTGACCTGG	1319
Db	56667	AGATCCACACCTGACCACTGGGCCACTGTGGCTCTGTGAGGGCTGGACCTGG	56726
QY	1320	TGAGTGCACAGGACCTGGCAGGCGAGCTGACGACACGACCTGGAGCCTCTTCAACAGTA	1379
Db	56727	TGAGTGCACAGGACCTGGCAGGCGAGCTGACGACACGACCTGGAGCCTCTTCAACAGTA	56786
QY	1380	TCCA-----	1383
Db	56787	TCCACCAGGTATGGGAGCAGAGCTGGGGGAGGAGACAGCGCGCGGGCGCCGGCTCG	56846
QY	1384	-----CCAGGTGGAGCTGATCCACTATGTG	1408
Db	56847	GCTCAGCACTGCTGACCTCTCTGTGACCCACCGCAGGTGGAGCTGATCCACTATGTG	56906
QY	1409	CTGGGCCCCCAGCATCTGGGGGATGTACACACCGCAACCTGGAGCGCTTCATGCGCGCG	1468
Db	56907	CTGGGCCCCCAGCATCTGGGGGATGTACACACCGCAACCTGGAGCGCTTCATGCGCGCG	56966
QY	1469	TTCAATGAGCTGCAGTACTGGGTGGCCACGAGCTGTGTCTGTGCCCCGTGCCCCGCC	1528
Db	56967	TTCAATGAGCTGCAGTACTGGGTGGCCACGAGCTGTGTCTGTGCCCCGTGCCCCGCC	57026
QY	1529	CGGGCCCACTGCTCAGGAGTTCATTAAAGCTGGCGGCCCA-----	1569
Db	57027	CGGGCCCACTGCTCAGGAGTTCATTAAAGCTGGCGGCCCAAGTGAGTCCCTGTCCAGTGG	57086
QY	1570	-----	1569
Db	57087	GTAGGGGTGGCCAGAGTCCCCCGGTACCTTTTCTTAAGCCCCCTCTTTGCTTAGTA	57146
QY	1570	-----	1569
Db	57147	TGTTGCCAAATCTGCCACCCATTTTGTTCCTGGGTCCCTGGAGCCTCTGCCCTTCCAC	57206
QY	1570	-----	1569
Db	57207	CCCATCCAGCTTGGATCTCTGCAGAGGCTGGCCTGTGTGCTGGGGCCTGTAGGG	57266
QY	1570	-----CCTCAAGGAGCAG	1582
Db	57267	GTGGCTGCTTCCCTTACCCTGAGGGTCTCTGGGTCTTCTGCTCACAGCCTCAAGGAGCAG	57326
QY	1583	AGAATCTCAATTCCTTTTCCGCTCATGTTTGGCCTCAGCAACTCGGCCCATCAGCCGC	1642
Db	57327	AGAATCTCAATTCCTTTTCCGCTCATGTTTGGCCTCAGCAACTCGGCCCATCAGCCGC	57386
QY	1643	CTAGCCCAACACCTGGG-----	1658
Db	57387	CTAGCCCAACACCTGGGAGGTAAGTGTGGTCTGGAGGGCCCCCTCTCTGAGGTCAGGCCCTCA	57446
QY	1659	-----	1658
Db	57447	GGCCCTCTGGGAGTCTGATGGGCTGGGCTCCCCAGAGCAGCCGCTCATCTGCCT	57506
QY	1659	-----AGGGGTGCTCACAAGTCCGGAAGCTGTACTCCGCCCTCGAGAGGCTGC	1709
Db	57507	CCTTTTCAGAGGGGCTGCCTCACAAGTCCGGAAGCTGTACTCCGCCCTCGAGAGGCTGC	57566
QY	1710	T-----	1710
Db	57567	TGGTGAAGTCTCCACCCTCCCGGCTGGCTCTGTGTAGGATCAGTGGGCTCGGCCCTGC	57626
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Db	57627	CCTCCAGACACCTCCTCTTGGCTTCCCTCGAGCCCTCTACTCGTCCCTTTGCTCACTTT	57686
QY	1711	-----	1710

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Db	57687	CAGGGTTCCCAACCTCGGCCCTAGCTCCAGCCTGTGAGTTTGGGAGCTGGCTG	57746
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Db	57747	AGGAAGGGGTGTTACAGCACTAGGATAGGGGTGACGGTGCATCCTCGGCCCTCAGTGTGT	57806
QY	1711	-----	1710
Db	57807	GCATGGGGCAGGAGATCTCTGTGAAGACTGGGCTGGAGCATGTGGGTGTCCAGTCTCTG	57866
QY	1711	-----	1710
Db	57867	GGCTCAGGTGCGCAGGGCAGTGTAGGGGCTCCAGAGCCCAGGGCTGGCATGGAGCG	57926
QY	1711	-----	1710
Db	57927	CCTGTGTGCACAGGGCTGTCTGCCCTCAGGAACCTCCAGGGGCTTGGGGCTAGACC	57986
QY	1711	-----	1710
Db	57987	AGTAGAAGGCCGAGGATAGAGTTGGGGTGGAAACCTCCACCTCCAGGAACCTTTGAGG	58046
QY	1711	-----	1710
Db	58047	ATTTGAGGGTTTTGACTATTTCTGAGAGAAGCAGAGAGGTACTTTCATCAGCATAGC	58106
QY	1711	-----	1710
Db	58107	CTGGGAGCTCTTGAGAGAAATCCACCTCGTGGGGCTCAAGGATTCAAAGGAGTTTACT	58166
QY	1711	-----	1710
Db	58167	CTGCAGAGAGAGAGGGGGACACAGAAAGACAGAGGATAGAAAGGACAGAGAGGT	58226
QY	1711	-----	1710
Db	58227	GACAGTGACAGACTTTTCCAAAGAACCTGGGGCCCTGTGACTAAGTGTGTAATTTTC	58286
QY	1711	-----	1710
Db	58287	TCAGTGTCTAATGGGAGGTTGGAAGCCCCGTGTTGGCTGTGCAGAGAGCCTGGGTGAGACC	58346
QY	1711	-----	1710
Db	58347	TGGGGCTGAGGAGAGGCTGAGTTGGGGCTCTCCACCTGCTGTGGGATGGGATGTGGCC	58406
QY	1711	-----	1710
Db	58407	CCTCCTTGGTTGGGTGGGTCTGTGTGGCTTATGGTGTGCAACCCCTCAGTGTGGC	58466
QY	1711	-----GGATCCCTCATGAACCAACCGGGTATACCGACTGCGCTCGCCAAAGCTC	1759
Db	58467	TTCTTCCCTCATGAGTCCCTCATGGAACCAACCGGGTATACCGACTGCGCTCGCCAAAGCTC	58526
QY	1760	TCCCTCTCTGTCTATCCCTTCATGCCCTTCTCTCAAA	1797
Db	58527	TCCCTCTCTGTCTATCCCTTCATGCCCTTCTCTCAAAAGGTAACAGGCTTCTCTGCCCTC	58586
QY	1798	-----	1797
Db	58587	CATCCCTCCATTTCCCTTCTCTGCCCTCCATCCCTTCTCTGCCCTCCATCC	58646
QY	1798	-----	1797
Db	58647	CCCATCCCATGCTATCTGTGTGTGCACCCACTCTCTTGGAGAGATTTATACCTCAAGTGC	58706
QY	1798	-----	1797
Db	58707	TGATGCTTCAGGGAGTGCAGAGATGAATTAGGAGTTCTTAGACTGGAGAATGAAGACAT	58766
QY	1798	-----	1797



Db	58767	CCAGACAAATACGGGCTGCCTTACGGGCTTAAGAGATACAAGAAATGCTGCTGGGGCTT	58826
Qy	1798	-----	1797
Db	58827	GGAGGGGCAGAGGAGGGGCTCTATGGGGTAGGTAGGCCCAAGGGAGCGCTTATGCCC	58886
Qy	1798	-----	1797
Db	58887	TTCACCTTTTCTGGGCTACAGAGGGCAGAAAGTTTGGGACCTATGAACAAAACCATCT	58946
Qy	1798	-----AGACATACCTTCATTTCATGAGGGAACACACACATAGTGGAGATCTCATCAA	1851
Db	58947	CTTTGCACACATGACCTTTCATTTCATGAGGGAACACACACATAGTGGAGATCTCATCAA	59006
Qy	1852	CTTTGAGAAGAT-----	1863
Db	59007	CTTTGAGAAGATGGTAGTCCAGGAGAGCAGGCATTCACTACTAACATAGTTGGAGGA	59066
Qy	1864	-----	1863
Db	59067	CATGACTGTGGCCTGGGAAGGGCAGGCTTGGAGGCAGCTTAAACTTGTATGAATAAT	59126
Qy	1864	-----	1863
Db	59127	ATGAGGATGAATACTTACTGTATAGCCCTGCCTTATTCCACTGCAACTGGGTCTGC	59186
Qy	1864	-----	1863
Db	59187	CAGGTGCCAGCCTCAGAGCTCTACCAATTCACGAGAGCCCTTCCAGCCCTCTTCTCTC	59246
Qy	1864	-----	1863
Db	59247	TAAGCCTTCTCTCGCCTCTGCCTTCTGTCCTCTGCTGGTCCCGCTGGGCTCTG	59306
Qy	1864	-----	1863
Db	59307	GGTGTGCTGAGGCGAAGTACACATGATGCCACATAACCAAGGATCTTACAGTCCCTGATC	59366
Qy	1864	-----	1863
Db	59367	CTTGGTTACAGGGAGCTTGGCCTCCCTGCTGCTGCACAGGGCAGGAGGGTTTCTCCC	59426
Qy	1864	-----GAGAAATGATGCCAGAGCGCGCGGA	1889
Db	59427	TCAGCAAGAGCTTATGCCCGGCTTGTCCGCACAGAAATGATGCCAGAGCGCGCGGA	59486
Qy	1890	TCCTGCCACTGCCGAGCCACACCCCT-----	1918
Db	59487	TGCTGCACCACTGCCGAGCCACAAACCCTGGTGAGAGGGCGGGTCCCGGGGTGGGAGGT	59546
Qy	1919	-----	1918
Db	59547	CCCCACCTACATCCTCTGTGAGGCTCCAGGGTGGCCCTGACTCCATGACCCCTCCCA	59606
Qy	1919	-----GTGCCCTCTCACCACTCAGAAGCCGAGTTTCCACCTCCACGAGGACAGCC	1970
Db	59607	CCCGCGCAGTGCTCTCACCACTCAGAAGCCGAGTTTCCACCTCCACGAGGACAGCC	59666
Qy	1971	AGGTGGCAGGATTTCCACAT-----	1991
Db	59667	AGGTGGCGAGGATTTCCACATGTAAAGTGGTGGCGATGGTGGGCGAGGAGGGGTG	59726
Qy	1992	-----	1991
Db	59727	CTTATGGTAGTTACCCATGGGTGGCACATCTCTAGGCACTTGCCATGTGCCAGGCAGGAG	59786
Qy	1992	-----	1991
Db	59787	CCCGCCCTTCCATACATGATCTTGATAATGTTACAGCCTCTGTGCTCTGAGCCAGGGGC	59846
Qy	1992	-----	1991
Db	59847	TCTTCGGTCCCTCACCCGTGGGGTGGCAGGAGCGGCTCTTTAGGAATTTGGTATGG	59906
Qy	1992	-----	1991
Db	59907	GAAGTGGTTGGTGGTGGAGGCAAGAGCAGATGTGATATGGCTCTCTTGGAGGGG	59966
Qy	1992	-----GCT 1994	1991
Db	59967	AAAGTTGGTTTCCAAAAGGGGCATCAGTGCCTCCCTGACTACTCTCTCCACCAGGCT	60026
Qy	1995	CGGAGCAGTCCCTGAGCACCCGGAGTCCAGCCAGCACCTGGCTTATGTCTCCAGCAGCTGA	2054
Db	60027	CGGAGCAGTCCCTGAGCACCCGGAGTCCAGCCAGCACCTGGCTTATGTCTCCAGCAGCTGA	60086
Qy	2055	AGGTCAATGACAACACAGCGGAACCTCTCCCGCTCTCCCGAGAGCTGGAGCATGAGGAG	2114
Db	60087	AGGTCAATGACAACACAGCGGAACCTCTCCCGCTCTCCCGAGAGCTGGAGCATGAGGAG	60146
Qy	2115	GGGTGGGACTGGAGCTGGAGCAGCCTTGCAGCCGGGAAGCAGAGGCTGTGCGGGCC	2174
Db	60147	GGGTGGGACTGGAGCTGGAGCAGCCTTGCAGCCGGGAAGCAGAGGCTGTGCGGGCC	60206
Qy	2175	AAGTACTACAGGCTGGCCACAGCTGGGCAAGGCTCTCCGTGGAGTGGACTCGAGTCCC	2234
Db	60207	AAGTACTACAGGCTGGCCACAGCTGGGCAAGGCTCTCCGTGGAGTGGACTCGAGTCCC	60266
Qy	2235	TGGAGCAGGCTGTGGAGGAGCCATCCCTGTGATGACTGGCAGCTTAAGGAGGACCTC	2294
Db	60267	TGGAGCAGGCTGTGGAGGAGCCATCCCTGTGATGACTGGCAGCTTAAGGAGGACCTC	60326
Qy	2295	GGAGTGGACCCGAGCAGGAATAACGAATGACCCAAAGCCAAAGGAGGAGGACAGAG	2354
Db	60327	GGAGTGGACCCGAGCAGGAATAACGAATGACCCAAAGCCAAAGGAGGAGGACAGAG	60386
Qy	2355	GCCCAGAGTGGGTGGAGTGGAGTGGGAGCTTGTGTCGAATAGAGAGTCTC	2414
Db	60387	GCCCAGAGTGGGTGGAGTGGGAGTGGGAGTGGGAGCTTGTGTCGAATAGAGAGTCTC	60446
Qy	2415	CACACAGA-----	2423
Db	60447	CACACCAGATGCTTCCAGATTCGTGCTCTGGCTTGTGTCAGCCAGGSCCTGCAGT	60506
Qy	2424	-----	2423
Db	60507	TTATTTTTCACAGTGGACAGAGAGAGAGAGGCTGCAATGTGTACCGTGTGTGCAA	60566
Qy	2424	-----	2423
Db	60567	GGCAGGCTTGGCCTGGGCGAGGGGCCCTGCTTCTTTCACAGCTTCTTCCCAAC	60626
Qy	2424	-----	2423
Db	60627	AGCAGCAGTGGGCTGGGGCTGTGCGGTGGTCCCTGAGGAGCTTATTTGTTACTGTC	60686
Qy	2424	-----	2423
Db	60687	AACATAGTAGTAGTTTCCAGGCCAGCCAGAGTGGGCGTGGCAGGAGGCTGAGGCCCG	60746
Qy	2424	-----	2423
Db	60747	CCCTCTGGGAAGAGCTCTGGAGGAGAAAGACCCCATGCTGGGCACGGGCCAGACTGG	60806
Qy	2424	-----	2423
Db	60807	TCCAAGATCTGATGCCACCCAGATGTGCTCCAGGGCTCTGGCCAAAGGGGGGCTGGA	60866
Qy	2424	-----	2423
Db	60867	GCCTGGAGCCCTGTGACAGCCAGGCTGACCATCAGCTCCCCCGTGGTGGTCCAAT	60926
Qy	2424	-----	2423
Db	60927	AGGACTTTACAGTCCAGATGCAACTGACAGCTTCTTCCCACTGCAATCCCGCTTTTCC	60986

QY	2424	-----	2423
Db	60987	ACACTTGAGCTCGCTCGCTGCTGGGCCAGGCTTCTGGGGTCTGCTGGGGTG	61046
QY	2424	-----	2423
Db	61047	TGATAGAAACAATGCTGAAGCTTCCGCGGAGAGCCCGTCGCTGTTGAGGCCCAACAGAC	61106
QY	2424	-----	2423
Db	61107	TTCCAGGAATCAGGGTTTATCATCAGTGTGAGATGGTCCAGCAAGCTCTGGTCATA	61166
QY	2424	-----	2423
Db	61167	CGAAGTCTCTCTTCCCTGCCCCCTTCAGCACTTCCCTAGGAACAGCTACTGCCAGGAC	61226
QY	2424	-----	2423
Db	61227	GCCTCTTGCAGGCAGAGTCACCAGGAAGTCCAGGGACTCCACCCCTCTTGCCTTGCT	61286
QY	2424	-----	2423
Db	61287	ATTGCCCTGAGTCTGCGCAGCAGGAGCACTTGTCTGGCCAGAGAGAACTCATGGCCC	61346
QY	2424	-----	2423
Db	61347	CTGGCATGACTCTGAGTAGGTATTGAGGCTGCAGGGCCTTGGCGCTCCAGAGGCAGCTG	61406
QY	2424	-----	2423
Db	61407	GTAAGCCCCCTGTCACCTTCAGCCCCATGGATGGATACACAGGCGCTGCTGCTCCAGA	61466
QY	2424	-----	2423
Db	61467	AAGGGTCAGAGCCTTTAGCAGGAGGAGCAGCAGCTGGGCTAGACCTCAGGTCACATAAG	61526
QY	2424	-----	2423
Db	61527	TGAATCTGAGCAAGTCAGTGAACAGTCTCTTCTCTTCAATTTCTCCACCTGTAAGCCAGGT	61586
QY	2424	-----	2423
Db	61587	ATGATAAACGCCATACAGCGCTTAGTGACAAACACATAAACTGTAGCTCTGCTCTGT	61646
QY	2424	-----	2423
Db	61647	AGCAGAGGTGACAGCCAAGGCGAGTCTGTGCTATCCAGGCTGGTAGGGGGSCAGCCCTC	61706
QY	2424	-----	2423
Db	61707	GCCTCAGTTGAGGGCTGAGGGAGAGACTGAGGTGCAGCAGATGGCAGTGGTAACCAAACC	61766
QY	2424	-----	2423
Db	61767	AGTTCCCTTGCCGTGGGTGGGACACAGGAGAACGACGGAAGCATCTGGAAGTGAAGT	61826
QY	2424	-----	2423
Db	61827	CAGGACAGGAGGTCAAGCCTGGGTGAGTCAGGAGTCCGGGGCTTTCTTTTCATCCAAC	61886
QY	2424	-----	2423
Db	61887	CCATTGCTGCTGCTCGGCAAAAGCCAGCCAGCCAGCGGTGGCCCTTCCACCGTTCT	61946
QY	2424	-----	2423
Db	61947	TCAGACTCTAGGGTAGCCCGCCAGCGACACACAGAAACCAAGTGCACGGGGCGG	62006
QY	2424	-----	2423
Db	62007	GTGTCCTCCACCAGCATTTCTCTCTGCTGCATCTACCTCTGATGGAGCTTCTCCCTC	62066
QY	2424	-----	2423

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Db	62067	CTCCTTGGACCATCAGCTTTACAGTCCAGACCACCTTGACAGCCACCGTGGTCTCCAG	62126
QY	2424	-----	2423
Db	62127	CTCCCCAGTCTCGGCAGGATGGCTTTTGAGCCTGTTGGAGAGACTTGGCAGGAGAA	62186
QY	2424	-----	2423
Db	62187	TGCTGCCAGGGCAGCAAGACAGACAGACTCTGGAGCTAGAAGAGTTGCGGCCCAGG	62246
QY	2424	-----	2423
Db	62247	GGCCAGGCCACTCCAGAGGACAGGAGGCCCAAAAGCGGGAAAGGCTCCATGTTACGG	62306
QY	2424	-----	2423
Db	62307	TGCCCCCATGCTGGGAGTTTGTGCTGCCCTTCTCTCTCCCTGACTGCCAAGCGTGGGTG	62366
QY	2424	-----	2423
Db	62367	GTGTGGGCAGGAGGCATCCTCTGCTGTTCCCTAGCAGCCAGGCTGTGTGCAGGGGCTC	62426
QY	2424	-----	2423
Db	62427	CCATTTTGTCTCTCAGCTGCAGAAGGCCACAAAGGAGGGGCTCATGGGACTGCTG	62486
QY	2424	-----	2423
Db	62487	AGAAGAAGGTGTCAGAAAGGGAGTGTGGCCCTAGATCAGTCTTTAAAAAGCCTCTGTT	62546
QY	2424	-----	2423
Db	62547	ACCTGAAAGGAGTCAAGCAGAGAGAGGAATGGCTGCTGTGTCTTACCAGGAGGACAG	62606
QY	2424	-----	2423
Db	62607	GACAGAGGAGGTCAATTGTTACACACACATPCCCCCTCTTCTCTCTCCCTCCACTT	62666
QY	2424	-----	2423
Db	62667	CCCTGTGAAGCCTGAGGCAGGCTGTGGCCAGGCTCAGGCCCTGACTGTGGGGTACACAC	62726
QY	2424	-----	2423
Db	62727	CAGGAGGCCACGCCCTCCCCACAGACGGGGTGGAGTGTGCTCAGTGAGCCAGCACCTCT	62786
QY	2424	-----	2423
Db	62787	GCTGCTTCAGCATCTCCGCTGGAGCCAGCTGTCCCTCTCTCTCAGGCTCCATCCGAAC	62846
QY	2424	-----	2423
Db	62847	AAAAGGAAGCAGAGCCTGAGATCCGGCACCCCATCCCCCTCCACTCAGCAGTGAAGTAG	62906
QY	2424	-----	2423
Db	62907	AGCTGGTGGGGCATGTCTGCTTCACACGCTGCCTTATGGCTTCTGTCTCTCCAACAG	62966
QY	2424	-----	2423
Db	62967	CCCTCAGCCTCTGGCTGCTCTCTTCCCAATAGTCACAAGATTTACCATGATAATAATAG	63026
QY	2424	-----	2423
Db	63027	GTTAAGACTTGAATGGTGTGTTTTCATCTTCTTCACTTCCACCTGTCTCAGTTACGTTA	63086
QY	2424	-----	2423
Db	63087	TTTTTATCCTGATGACAGAATAGGTACTACAGTATTTTTTACTCTGTTTTTACAGTCAAA	63146
QY	2424	-----	2423

Db	63147	GAACCTGAGGCACAGGCAGGTTTGCCCAAGGTCACATAACTCTTAATAGCAGGGTAGAC	63206
QY	2424	-----	2423
Db	63207	AGGTGAAGTAACCTGGATGTGTATCAGCCATGCCCTTTCCCATGCCCCGGGCACTCCCCA	63266
QY	2424	-----	2423
Db	63267	TGACAGCTCTCTGAATCCCAACATTTTATCTTTTGCAGATTAGACCCAAGCATATAA	63326
QY	2424	-----	2423
Db	63327	TTCCCTTTTCCCTCTCTCCATTCACATTCCTTTTATTTCACGTACTACTATAGGCCT	63386
QY	2424	-----	2423
Db	63387	TGTAGGGCTCTGTCAACAGACAAAGGCCAGGTCGTGGCTGATGCCGTGAATCCCA	63446
QY	2424	-----	2423
Db	63447	TGCTTTTGGAGGCTAGGCATTTGAGACCAACCTGGTAACAAAGCAAGACCGGTCCTA	63506
QY	2424	-----	2423
Db	63507	TAAAAATAAAAATTAACCGGATATGGTGTGCACCTGTAGTCTAGCTACTTTGGGAG	63566
QY	2424	-----	2423
Db	63567	GTTGAAGTGGGGGATCACTTGAGCCCAGGAGTTCGAGGTTACAGTGAGCTATAACTGCA	63626
QY	2424	-----	2423
Db	63627	CTCGCTTCTCTTTGGTTGACAGAGAAAGACTCTGCTCTATAAAAGAAAAACCAAGAC	63686
QY	2424	-----	2423
Db	63687	TGGTAGTTCTGGCCCTCATGGGGTCAATCATCCAGTAGCGACCAAGACTATCAGTAAC	63746
QY	2424	-----	2423
Db	63747	AAAGATGCCAGGGATAAAGTCCAGAGCAGCAGAGAAATCCAGGGCTGCAGATCTCAGTG	63806
QY	2424	-----	2423
Db	63807	CTTACCCCAAGCATTAAGCCCCAGAGCTGCTCCCGTTGGAGCATAGGTTTCATAGCCCCAG	63866
QY	2424	-----	2423
Db	63867	CTCCCTGAGCCCTGCACAGCTCTGTCCTCCTGAGATGGGATGCTCTCCACTCATCACTG	63926
QY	2424	-----	2423
Db	63927	GCACAAGCCACCTGAGTAGCAGGCAGGATATGTTGGCTGGTGGCTGCAGCAAAATCTGACC	63986
QY	2424	-----	2423
Db	63987	TGGCAGTTGCTCCTCAACCCCTTCTCCTTCCACAGACCTACAGCCCAAGAGTACATGT	64046
QY	2424	-----	2423
Db	64047	CTTTCCAAAATGTCTTAGTACCCCAACCCACACTCAGTATTGAGCTCCTCCTACATCT	64106
QY	2424	-----	2423
Db	64107	GCCAGGCCATGGATCTATACTAAGTAAGTGTCCACCAGGCCTGTCAGTTGCTGCAGCC	64166
QY	2424	-----	2423
Db	64167	AAATTCAGCACCCTCTCTCAGATTCTGGACTTTCAGACCTGAGCTGTAGCCTTCCTG	64226
QY	2424	-----	2423
Db	64227	CAACACGTCTCTGGCATCTGAGGGTGAAGGGCTTGACAGCCAGGGCAGCGGTGACTG	64286
QY	2424	-----	2423
Db	64287	CCGTCCCTCCCAGTGGATGATAAACTGGATCATCTGAGAACCCGAGTCTGACTCAGCTG	64346
QY	2424	-----	2423
Db	64347	CACTTAGAAAGAGTCTTCTCTCCCATGCTGGGGCCTTCTTGAGCAGGTCCTCGATG	64406
QY	2424	-----	2423
Db	64407	GGGTGAGGGGAGGATGCTCCTGGTGGTAGCTAGCTAGAACACAGAGAGGCTGGTACTCC	64466
QY	2424	-----	2423
Db	64467	CAGAAAGACAGAAAGTTAAGCTCACAGTTTGGACCCACATTTTGTCTAGGAGGTGTG	64526
QY	2424	-----	2423
Db	64527	GGATTCTGGTTGTGCATGTGTGTGGACTGTGACCAAGTGTGACCCCTGGACCAGGAGC	64586
QY	2424	-----	2423
Db	64587	TGGATGCTCAGGCTTCACCTGACTCTGCCCTTGCCTTGGCCCTTGGAGAGCACT	64646
QY	2424	-----	2423
Db	64647	TGGATCTTTGGTTTCTCACTGAGTGAGTTGTAGGCAGCTAGAGCTGTTTGGACTGCTG	64706
QY	2424	-----	2423
Db	64707	AATGAGGGGCTGTACTGGCTTCTCCTGGCACTTAGCGCATCTAGCTAGCAGAGGGTAG	64766
QY	2424	-----	2423
Db	64767	AGACAGGTTGCCCTTTTAGGGGGCCATGACAAACAGGATATTTAAGCTTACTTGACCACC	64826
QY	2424	-----	2423
Db	64827	CAGAAAGTGCCTCTCCACCAGAGTATAAGGCACAGATAGTGGATCCCATAGTTGGCA	64886
QY	2424	-----	2423
Db	64887	GTGTCTGGGCGAGGGGGCCTCCATCTCTCAGCAGCCCTGGGCAAGCAAGCGCTTCC	64946
QY	2424	-----	2423
Db	64947	TCTCCTGGGCTCACTTTTCCCATTTAGAAACAGGAATTTGGATGAGAAGTGTGAGG	65006
QY	2424	-----	2423
Db	65007	ATCTATGAATTTGGCAACTCAGGGTGTCAAAAGGGGAAGGGGTGAGGCCCTTTAAGCA	65066
QY	2424	-----	2423
Db	65067	TCTTCCCATGTTGCTTCCAGCCGTGACTGCTCATGGAGGGATAGTAGGTCGAAGCA	65126
QY	2424	-----	2423
Db	65127	CTGTTTTATTGGAGGGTTCTCAGAGCTCCCTACCCCTGAGTGTGCTCCTGCTACCTG	65186
QY	2424	-----	2423
Db	65187	CTTGAGTGCATGACTGCTTGCCTTCTACTCTTTGAGTTCTAGTTGTCAGTAGAAGGCCCC	65246
QY	2424	-----	2423
Db	65247	TGTTATGTAGATACATAAGTTGGGAAGATTCTTAATGGCCCAATTGTTAGATTCTAATAAT	65306
QY	2424	-----	2423
Db	65307	ATTTCTAATGCTCACTTTTAAAGAAATAGAAAAAGAGAGCCTCGAGGCAATGGCATTAG	65366

Qy	2424	-----	2423
Db	65367	GGGAATTTAATGCGATGATCAGGTGGCAAGTCCAGAGATGATTACTTTAGGGTGGAGAA	65426
Qy	2424	-----	2423
Db	65427	TGTTACAGGGTCTCTGGGACACAGGGCATCCAGGGTGGGAATCAGAGGGAGAGTAGGTG	65486
Qy	2424	-----	2423
Db	65487	GCCAGTTTACCCCTCTCAGCGTTGCTGGGGCTGAGCCCTGCAGGCAACCTGTGTGCTG	65546
Qy	2424	-----	2423
Db	65547	GAGGAGAGCCTGCACATGCAGGCTGGACTCTGGTGGCCACGAGAAGTGCAGCAATCT	65606
Qy	2424	-----	2423
Db	65607	CTGTTTCTCTTCCGGTTCTTGACTTTGCACAGGAGCTGTGGATTATCTCATCAAAAT	65666
Qy	2424	-----	2423
Db	65667	AGAGCAAGGCTCAGGAGGCTGAGCCATGGAGTTGCTGCTCTTAGCTTAGCCCCATTGC	65726
Qy	2424	-----	2423
Db	65727	AACTTTTAGCTTCCCCAGAGACAAAGCACTGTTCTTAAGGCTGCAGGCCACAGCCCCAGA	65786
Qy	2424	-----	2423
Db	65787	AAACAGTGGTTCTTTTGGCCACCAAAACAGGTGAGTTAGACAGTGGGACTCATCAAGG	65846
Qy	2424	-----	2423
Db	65847	GCCATCCCCAAGACTTGAAATACCGAGGCTGCACGTTTTTTTAAATCAAAATATTATCTT	65906
Qy	2424	-----	2423
Db	65907	TGGAATTATAAAATAAATATACATTATAGAGACTGTAGATTAGAGGAGCTGCCACTTC	65966
Qy	2424	-----	2423
Db	65967	TCATATTGTCATTTTCAGAACTTTTTTTTTTTTTTTTGTGAGACGGAGCTTCTCTGTC	66026
Qy	2424	-----	2423
Db	66027	GCCCAGCGGAGTGCAGTGGCGGATCTCAGCTCACTGAAAGCTCCACCTCCCCGGTTC	66086
Qy	2424	-----	2423
Db	66087	ATGCCATTCTCCTGCGCTCAGTCTCTGAGTAGCTGGGTCTACAGGCGCTTGCCACCACGC	66146
Qy	2424	-----	2423
Db	66147	CCAGCTAGTTTTTTTGTATTTTTTAGTAGAGGAGTTTCACCATGTTAGCCAGGATGTCCTC	66206
Qy	2424	-----	2423
Db	66207	AATCTCTGACCTCGTGAATCGCTGCCCTTGGCTCCCAAAGTGTGGGATTACAGGCAT	66266
Qy	2424	-----	2423
Db	66267	GAGCCACTGCGCCCGCCAGAACACTTTTCTTGTATTTTTTTTATTTTATTTCTGTGG	66326
Qy	2424	-----	2423
Db	66327	AGACGGAGTCTGTTGTGTGCCAGGCTGGAGTGTGTGTGAGATCTTGGCTTACTGC	66386
Qy	2424	-----	2423
Db	66387	AATCTCCACCTCCCTGGTCCAGCGATTCTCTGTCTTAGCCTCCCAAGTAGCTGGGATT	66446
Qy	2424	-----	2423

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Db	66447	ACAGATGTGCATCACCACGCCAGCTACTTTTGTATTTTTTAGTAGAGATGGGTTTCAC	66506
Qy	2424	-----	2423
Db	66507	CATGTTGCCAGCGGGGTCTTGAACCTCCTGACCTCAGGTGATCTGCTGCTCGCCCTCC	66566
Qy	2424	-----	2423
Db	66567	CAAGTCTGGGATTACAGCGGTAAGCCACCGGCCCCAGCACAGAACATTGTTAACATT	66626
Qy	2424	-----	2423
Db	66627	CATTTTTCAGGCTTTTCTTAACCATCCTATCTAAATTACGCCCTTCGTGGCCCTATTTT	66686
Qy	2424	-----	2423
Db	66687	TTTTTTAAACAACAACATCTGGCCTTATTTATTAGGCATGTTCTTAAACCTCTGCAAGG	66746
Qy	2424	-----	2423
Db	66747	ATTAACCTTATTCAATCCTCACCATAGCCCTTAAGGTACTCTTACTTTGTTCTATTTTAGA	66806
Qy	2424	-----	2423
Db	66807	TCTACGGGGAAATTGAGGCACAGAGGGGTACGGAACTTGCCGAGGATTGTACAGCTGG	66866
Qy	2424	-----	2423
Db	66867	TGGTGGCAGAGCTGGGATTCAAACCCAGGCAGCTTGGCTTTTGAATCAACAGTCTGAGC	66926
Qy	2424	-----	2423
Db	66927	CTCATGTCCGTCTGCCAGATCTGGCTGTAGACGCTCTTTATTTATGTCTCTTCTTCTCT	66986
Qy	2424	-----	2423
Db	66987	CCAGCTGCTGAGTGTCTACCCCTTTATCCACTTTGCTTATCACAGTGTCTGGCACACAGT	67046
Qy	2424	-----	2423
Db	67047	GGCATTCAGTGTCTATTTGTGTCAGGTGAATGAAGGAATGAATGAGAAAGGGGAATTTCCC	67106
Qy	2424	-----	2423
Db	67107	ATAACCAACTACCTTTAGCACAAATAATTATGGTAATTTTGCAGAGTTGTAGATTTCAAAT	67166
Qy	2424	-----	2423
Db	67167	CATGGGTCAGGAACCGCTCCTGCCAGTCTGTTGTCTCTGTCATCATCTTTTGGGCCAGAA	67226
Qy	2424	-----	2423
Db	67227	CAGCCGAGCTGTGCCAACATACCTGGGGGAGAGGAGGCCCATGTTCTTCACGCCAGCGG	67286
Qy	2424	-----	2423
Db	67287	TCAGCTGCGGGTTGGCTCGGCGCTGTCTCTCTTGTATCTCGCCCTTACTCACTCCCTC	67346
Qy	2424	-----	2423
Db	67347	GCTGTCTCTGAACTCCTTATGCTGTCTGCTGTCTGTGCCCCACATCTCCTTGTCTC	67406
Qy	2424	-----	2423
Db	67407	ATGTGCCCTTAGACCCCTCTTTAAAGCCAGTGGAGTTTGAGGACATGCAATAGTAATTTT	67466
Qy	2424	-----	2423
Db	67467	ATAATCATTTACTGGGCAGTGTAAACAACAAATTTAGCACAGCTGGCAAAAGAGTGTAGCAG	67526
Qy	2424	-----	2423



Db	73956	CAACAGGACGAGCCCTTCCCTGGCAGCAGCTGTGCCATCCAAAGTTGGGGATAAAGTTG	74015	Qy	1163	-----	1162
Qy	1015	-----	1014	Db	75096	AGCAATATGTTAGGAGCTGGAGATACCACAGCAGGTAAACACGGTCAGCTTGATGTTAA	75155
Db	74016	GTGCTGTGCCGGCTGGGACAGCCGACATCTGCACCTGCTGTCTCTGCTCTCTCTTG	74075	Qy	1163	-----	1162
Qy	1015	-----	1014	Db	75156	GAGCATAGAGCGTGGACTCCAGACCCGTGAAGGCATCTTAGGCTCACCATTACTAGCT	75215
Db	74076	TCCTGTGTGCTCACTCTTGACCTCGGTGTGCCCTGGGCCAAGTGGCAGCCTGTACTCCT	74135	Qy	1163	-----	1162
Qy	1015	-----	1014	Db	75216	GTGTGATGCTGGGCAAGTTGCTTAACTCTCTGAGCCTGCATTTCTCACCTGTCAGATG	75275
Db	74136	CAGGCTGTGTTCCAGGTGCTGGGTAGATCTGCCTCTACCTGCTCTCTTTTGTCTCA	74195	Qy	1163	-----	1162
Qy	1015	-----	1014	Db	75276	AGGACTGTAAATTGTATCTACCCACAGGGTTGCAATGGCTAAGTGAGCTAATGTGTGTA	75335
Db	74196	GGCCCTCCCACTGCAGCTCAGCTCTTGGGGATCCCTCCCACCATTTACTGCAATAGCC	74255	Qy	1163	-----	1162
Qy	1015	-----	1014	Db	75336	GCATTTAGCACAGGGCTGCCAGTCAGTCAGAACATGGCGGCTCAGGAGTATTAAG	75395
Db	74256	GCCTCTCCCTCTCGGGTGGAGATCAGGCAGCCCTTCCACAGCTCAGTCTGGTCTCCT	74315	Qy	1163	-----	1162
Qy	1015	-----	1014	Db	75396	ATGGGCTCCAGAGAACCTGGAACATTTCAAACTACTGTTCTCTGCGGAGGCACGGCT	75455
Db	74316	CTTCAGTCCCTATGACATCTGCCGCCAGACCACTCAGTGTTCACCTGCAGCTGCCTG	74375	Qy	1163	-----	1162
Qy	1071	TGACAGCCTCCGTGAGAGAGTGCATGGCAGCGTTGGCCAGGAGGATGGCTGACCAAGG	1130	Db	75456	TGACAGCTGGAACCCAGGCAGACAAAGATTAGGGCGTTCAAGAAGTGGGATGAGAAA	75515
Db	74376	TGACAGCCTCCGTGAGAGAGTGCATGGCAGCGTTGGCCAGGAGGATGGCTGACCAAGG	74435	Qy	1163	-----	1162
Qy	1131	GGCAGTGTGTTGAAAGGTCATTTCTGCAGGT	1162	Db	75516	AGAAAAGCCTTCTCCCTCAGGAAGTGGGAGAGATGGTCACCTGTGCTGCCCTGG	75575
Db	74436	GGCAGGTGCTGTGTAAGGTCAATTTCTGCAGGTGGTGGTGTGCTGCCCTGGATAGACCCA	74495	Qy	1163	-----	1162
Qy	1163	-----	1162	Db	75576	GAAGCACTGCCCTCTGCTGCCACCTGGTGCAGTTGCAGTTGCCAAAGTGCATGTTTAT	75635
Db	74496	AGGAGGGTGGCCCTCGGATCTGCGCCAGGTGCCCAAGTCAAGATCATTTGTTCATAT	74555	Qy	1163	-----	1162
Qy	1163	-----	1162	Db	75636	GAGACCTACTATGTGCCAGGCACCTGTTTAGAGCACTGATCTCCGAGCAGCTTGGATCGA	75695
Db	74556	GTATCTTTCTGCTCTCCTCAGTGTGAATGATGGCTAGCAATTAATGGAGGTGGAGTGC	74615	Qy	1163	-----	1162
Qy	1163	-----	1162	Db	75696	CACCCATGTCAATAACCAACATTTAATTAACCCACACCCCACTGTGTGAATATTGTT	75755
Db	74616	GTCTGTTGAAAGTGCAATTTATGCAGTGTGTAAAGACATGAGCTCTGGAGCCTGCTTT	74675	Qy	1163	-----	1162
Qy	1163	-----	1162	Db	75756	TGTAAGTAATACACATATATTACTACATTAATATCATATAAAGATAGATAAATAGAAA	75815
Db	74676	GCATTCGGCACAGCCCTTTAGCTACCATCTGTGTCTCTGCGAGGGTACTTTCATCC	74735	Qy	1163	-----	1162
Qy	1163	-----	1162	Db	75816	TTGATGGAGTAGAATGCAAGCAGGTAGAAAAAGTAAAGTAGAGAGCTCATAT	75875
Db	74736	CTCTGTGCTCAGTTTATCATCCATAAATGGGAATAGTAGAGTACTTGCCTCTGGAG	74795	Qy	1163	-----	1162
Qy	1163	-----	1162	Db	75876	TTTCCCGAGGCACATGGATGATCTGATGTACCTTACTTTTGAGGCCACTGCTCTAGGAC	75935
Db	74796	GAATTCGAGGATCAATTGAGTTTCACTATGAAAGCATTTAGAATGGTGCCTGGCACATA	74855	Qy	1163	-----	1162
Qy	1163	-----	1162	Db	75936	TGGGACTCAAGCACAGTCCCGATCCATGAGGAGCTGATGAAATCAACACCAAGCTTA	75995
Db	74856	GTGATACATAAGTATTAGCTGATATTATATCATCATTTTGTGTAGTCATTAATATGA	74915	Qy	1163	-----	1162
Qy	1163	-----	1162	Db	75996	TATAAGACACTTCCCAATTTTCAAGGGCTTTTATACATAGCATGTACTTATAGCTACTA	76055
Db	74916	ATTATAACAATCTCATGATACAGGTACTTTTATCTTATTTTCAGACAAGACACTGA	74975	Qy	1163	-----	1162
Qy	1163	-----	1162	Db	76056	TTTATATACATTTTATTTGACTTATGAAATAGTTGGGCAAGCTTATTGTCTCCAT	76115
Db	74976	AGCTAAAGGGCATGAGCTATTCTCAAGCTCACACAGTGAGTAGCTGGTCTTGAAC	75035	Qy	1163	-----	1162
Qy	1163	-----	1162	Db	76116	TTTACCAGGAAGAAGTGAGGCTGAGGAGGCTCAGACCTCGCCAGGTTCTTCTGTGAC	76175
Db	75036	TTAAGTAGTCTTCATTTGTTTGTAGTCACTCAGCAACATTTTGTGAGATCAGCTATGAGCC	75095				

QY	1163	-----	1162
Db	76176	TCACTGAGAATCTTTCCATCCTCTTGATGTGCTTCCCTGGGCTGCCTGGCTGGTGG	76235
QY	1163	-----	1162
Db	76236	GCACATGCACCTGTGTATTCTGAGCACACCAGGACTTCAACCCCGCTACTAGGAGAAA	76295
QY	1163	-----	1162
Db	76296	CAACCTCTCAGCCTCCAAACAGCACCTCCACCTGGGATCCAGTGTGTCGCCGGGCTCC	76355
QY	1163	-----	1183
Db	76356	CTCCCTTCCCCACCAGTCGCCCTCTGCTGCTTTTGCAGATGCCATTGGCCTGCAGCCA	76415
QY	1184	GATGCCCGTGGTGTGCCACATCTCTGGGGCTCAATGAGCGCTCTTTGTTGTCAACCCA	1243
Db	76416	GATGCCCGTGGTGTGCCACATCTCTGGGGCTCAATGAGCGCTCTTTGTTGTCAACCCA	76475
QY	1244	CAGGAAGTCATGAGCT-----	1260
Db	76476	CAGGAAGTCATGAGCTGTGAGGACCAGCAGGGTGCCAGGGCCCGAGGAGATCTA	76535
QY	1261	-----	1260
Db	76536	TTTGAGTGTGGCAGTGTGGATTCTGTGGGAGGGTCCCAGGGAGAGAGAGGGGCG	76595
QY	1261	-----	1260
Db	76596	CTGGCTCTGGCTGCTGGTCTCAGCACAAAGAGTGGGCTCAGCTGATGGGG	76655
QY	1261	-----	1260
Db	76656	AATTTCCAAAGATAGTCACGGCAGGGGCTGGTAGCACTGGTTGGGAGCTCCCAAGAGAA	76715
QY	1261	-----	1260
Db	76716	AGAGGAGACCTGCCCTAGTTAGGGGTTCCCCAGGAGACAGGAGCCCAAAAGAGGGGTC	76775
QY	1261	-----	1260
Db	76776	TCAGCACTGGGAGGCCATATCCTCCAGCTGCTATAGCCCTAGAGACCTCTACTCCCA	76835
QY	1261	-----	1260
Db	76836	CTCCTGCCCTCTAACCTTCCCTTAACAGAGCATAGAGTCCTTGCCCCCAACCCCTCTCC	76895
QY	1261	-----	1260
Db	76896	CCCTACCTGTGCTTTCCCTGGATTCTTCAGGCAGCCCTCCAGCACTCTCCACCCCG	76955
QY	1261	-GATCCACACCTGACAGCTGGGGCCCACTGTGGGCTCTGCTGAGGGGCTGGACCTGG	1319
Db	76956	AGATCCCAACCTGACCACTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	77015
QY	1320	TGAGTGCCAAAGACCTGGCAGGCGAGCTGACGACCAACAGCTGGAGGCTTCAACAGTA	1379
Db	77016	TGAGTGCCAAAGACCTGGCAGGCGAGCTGACGACCAACAGCTGGAGGCTTCAACAGTA	77075
QY	1380	TCCA-----	1383
Db	77076	TCCACCAGTATGGGAGGAGAGAGCTGGGGAGGAGAGAGGCGGGCGCGGCTCG	77135
QY	1384	-----	1408
Db	77136	GCTCAGCACTCGGTGACCTCTCTGCTGACCCCAACAGGTGAGCTGATCCACTATGTG	77195
QY	1409	CTGGGCCCCAGCATCTGGGATGTACACACCGCAAGCTGGAGGCTTCAATGCGCCCG	1468
Db	77196	CTGGGCCCCAGCATCTGGGATGTACACACCGCAAGCTGGAGGCTTCAATGCGCCCG	77255
QY	1469	TTCAATGAGCTGCAGTACTGGGTGGCCACCGAGCTGTCTCTGCCCCGTGCCGCCGCC	1528

Db	77256	TTCAATGAGCTGCAGTACTGGGTGGCCACCGAGCTGTCTCTGCCCGCTGCCGCCGCC	77315
QY	1529	CGGGCCAGCTGCTCAGGAAGTTCAATAAGCTGGCGGCCCA-----	1569
Db	77316	CGGGCCAGCTGCTCAGGAAGTTCAATAAGCTGGCGGCCCGAGTAGTCCCTGTCCAGTGG	77375
QY	1570	-----	1569
Db	77376	GTAGGGGTGGCCAGAGTCCCGCCGGCTACCTTTCTTAAGCCCCCTCTTTGCTTAGTA	77435
QY	1570	-----	1569
Db	77436	TGTGGCAAAATCTGCCACCTATTCTTCCCTGGGTCCCTTGAGGCTCTGCTTCCCAC	77495
QY	1570	-----	1569
Db	77496	CCATCCAGCTTGGATCTCTGCAGAGGCTGGGCTGTGTCTGCGGGCAGCTAGAGG	77555
QY	1570	-----	1582
Db	77556	CTGGCTGCTTCCCTTACCCTGAGGGTCTCTGGGTCTTCTGCTCACAGCCTCAAGAGCAG	77615
QY	1583	AAGAACTCAATTCCTTCTTGGCCTCATGTGTGGCCTCAGCAACTCGGCCCATCAGCCGC	1642
Db	77616	AAGAACTCAATTCCTTCTTGGCCTCATGTGTGGCCTCAGCAACTCGGCCCATCAGCCGC	77675
QY	1643	CTAGCCACACCTGGG-----	1658
Db	77676	CTAGCCACACCTGGGAGGTAAGTGTGGTCTGGAGGGGCCCTCTCTGAGGTCAGGCCCTCA	77735
QY	1659	-----	1658
Db	77736	GGCCCTCTCTGGAGTCTGGATGGGCTGCCCTCCCCAGAGCAGCGCTCATCTGCTCT	77795
QY	1659	-----	1709
Db	77796	CTTTTTCACAGCGGCTGCTCTCAAAAGTCCGGAAGCTACTTCCGCCCTCGAGAGGCTGC	77855
QY	1710	T-----	1710
Db	77856	TGTTGAGTCTCCACCTGCCCGGCTGGCTCTGTCTGCTAGGATCAGTGGGGCTCGGCCCTGC	77915
QY	1711	-----	1710
Db	77916	CCTCCAGACACCTCACTCTTGGCTTCCCTGCAGCCCCCTCTACTCGCTCTTGTCTACTTT	77975
QY	1711	-----	1710
Db	77976	CAGGGTTCCCAACCTCGGCCAGGGCTAGCTCCAGCCTGTGAGTTTGGGGAGCTGGCTG	78035
QY	1711	-----	1710
Db	78036	AGGAAGGGTGTTCAGCACTAGGATAGGGGTTGCAGGTTGCATCTCTGGCCCTCAGTGTGT	78095
QY	1711	-----	1710
Db	78096	GCATGGGGCAGGAGATCTGTGTGAAGACTGGGCTGGAGCATGTGGGTGTCCAGTCTCG	78155
QY	1711	-----	1710
Db	78156	GGGTCTGAGGTGCCAGGCGAGTGTCTAGGGGCTCCAGAGGCCCAAGGCCCTGGCATGGAGCG	78215
QY	1711	-----	1710
Db	78216	CCTGTGTGCACAGGCCCTGTCTGTGCCCTCAGGAACCTCCAGGGGCTTGGGGCTAGACC	78275
QY	1711	-----	1710
Db	78276	AGTAGAGAGCGGAGGATAGACTTGGGGGTGGAACCTCCCACTCCAGGAACTTTTGAGG	78335
QY	1711	-----	1710

Db	78336	ATTTTGAGGGTTTGTGACTATTCTGGAGAGAAGCAGAGAGAGGTACTTCAACGACATAGC	78395	QY	1864	-----	1863
QY	1711	-----	1710	Db	79476	CAGGGTCGCAGCCTCAGACGCTCTCACCATTCAACGAGAGCCCTTCCAGCCCTCTTCTCTC	79535
Db	78396	CTGGAGCTCTTGAGAGAAATCCACCTCGTGGGCTCAAGGATTCAAGGAGTTTACT	78455	QY	1864	-----	1863
QY	1711	-----	1710	Db	79536	TAAGCTTTCTCTCCTGGCCTCTGCCTTCTGTCTCTGCTGGTCCCGCTGGGCTCTG	79595
Db	78456	CTGCAGAGAGAGAGGGGACACAGAAAGAGACAGAGGATAGAAAGGACAGAGAGGT	78515	QY	1864	-----	1863
QY	1711	-----	1710	Db	79596	GCTGTCTGAGCGAAGTACATGATGCCACATAACCAAGATCTTACAGTCCCTGATC	79655
Db	78516	GACAGTGACAGACTTTTCCAAAGAACTGGGGCCCTGTGACTAACTGTGTGAATTTTC	78575	QY	1864	-----	1863
QY	1711	-----	1710	Db	79656	CTTGGTTACAGGGAGCTTGGCCTCCCTGCTGCTGCACAGGCGCAGCAGGGTTTCTCCC	79715
Db	78576	TCAGTGCTAATGGGAGTTTGAAGCCCGTGTTCGCCTGTGACAGAGCCTGGGTGAGACC	78635	QY	1864	-----	1863
QY	1711	-----	1710	Db	79716	TCAGGCAAGAGCTTATGCCCCGGTGTGTCCGACAGAGAATGATGCCAGAGCCGCGCGA	79775
Db	78636	TGGGCTGAGGAGAGCTGAGTTGGGSCCTTCGACCTGCTGTGGGATGGCATGTGGCC	78695	QY	1890	TGCTGCACCACTGCCGAGCCACAACCTT-----	1918
QY	1711	-----	1710	Db	79776	TGCTGCACCACTGCCGAGCCACAACCTTGGTGAGAGGCGGGTCCCGGGTGGAGGT	79835
Db	78696	CCTCCTTGGTTGGGTGGGGTCTGTGTGGCTTATGTGTGTGCAACCCCTCAGTGTGGC	78755	QY	1919	-----	1918
QY	1711	-----	1710	Db	79836	CCCCACCCCTACATCCTCTGTGAGGCTCCAGGGTGGCCCTGACTCCATGACCCCTCCCA	79895
Db	78756	TTCTTCCCTTAGATCCCTCATGAAACCCGGGTATACCGATGGCCCTCGCCAAGCTC	78815	QY	1919	-----	1918
QY	1760	TCCTCTCTGTCATCCCTTCATGCCCCCTTCTTCTCAAA	1797	Db	79896	CCCCCGCAGTGCCTCTCTCACCACTCAGAGCCGAGTTTCCACCTCCACGAGGACGCC	79955
Db	78816	TCCTCTCTGTCATCCCTTCATGCCCCCTTCTTCTCAAAAGGTAAACAGGCTTCTCTCCCTC	78875	QY	1971	AGTGGCGAGGATTTCCACAT-----	1991
QY	1798	-----	1797	Db	79956	AGTGGCGAGGATTTCCACATGATGAGTGGGCGATGTTGGTGGGCGAGGAGGGGGTG	80015
Db	78876	CATCCTTCCATTTCCCCCTTCTCTGCTCCATCCCCATTTTCCCTTCTGCTCCATCC	78935	QY	1992	-----	1991
QY	1798	-----	1797	Db	80016	CTTATGTTAGTTACCCATGGCTGGGCACATCTTAGGCACCTTGCCATGTGCCAGGCACGAG	80075
Db	78936	CCCATCCATGCCCTATCTGTGTGCACCCACTCTGTGTGGAGAGATTATACCTCAAGTGC	78995	QY	1992	-----	1991
QY	1798	-----	1797	Db	80076	CCCGGCCCTTCCATACATGATGTTGATAATGTTACGCCTCTCTGTCTCTGAGCCAGGGGC	80135
Db	78996	TGATGCTCAGGAGTGCAGAGATGAATTAGGAGTTCTTAGACTGGAAGAATCAAGACAT	79055	QY	1992	-----	1991
QY	1798	-----	1797	Db	80136	TCCTCGTCCCTCACCGTGGGTGGGCAGGACAGCCGCTCTTTAGGAATTGTTGATGG	80195
Db	79056	CCAGACAAATACGGGCTGCTTCAGGGCCTAAGAGATACAAGGAATGCTGTGGGGCTT	79115	QY	1992	-----	1991
QY	1798	-----	1797	Db	80196	GAAGTGGTTGGTGGGTGGAGGCCAAGAAGGCAGATGTGATATGGCTCCTTGGAGGGG	80255
Db	79116	GGAGGGGCAGAGGCAGGGCTCTATGGGTGAGGTAGGCCCAAGGAGCCGCTTATGCC	79175	QY	1992	-----	1994
QY	1798	-----	1797	Db	80256	AAAGTTGGTTCCACAAGGGGCATCAGTGCCTCCCTGACTACTCTCTCCACCAGCT	80315
Db	79176	TTCACTTTTCTGGCTACAGAGGCGAGAGTTTGGGACCTATGAACAAAACCATCT	79235	QY	1995	CGGACAGTCCCTGAGCACCCGGAGTCCAGCCAGACACTTGGCTTATGTCAGACAGCTGA	2054
QY	1798	-----	1851	Db	80316	CSGACAGTCCCTGAGCACCCGGAGTCCAGCCAGCACCTTGGCTTATGTCCAGCAGCTGA	80375
Db	79236	CTTTGACAGATGACCTTATTCATGAGGGAACACACACTAGTGGAGAATCTCATCAA	79295	QY	2055	AGGTCATTTGACAAACAGCGGAACCTCTCCGCCCTTCCCGAGAGCTGGAGCATGAGAG	2114
QY	1852	CTTTGAGAGAT-----	1863	Db	80376	AGGTCATTTGACAAACAGCGGAACCTCTCCCGCTTCCCGAGAGCTGGAGCATGAGGAG	80435
Db	79296	CTTTGAGAGATGGTGAHTCCAGGGAGACAGCATTCACTACTAACATAGTTGGAGGA	79355	QY	2115	GGCTGGGACTGGAGCTGGAGCAGGCACTTGCAGCCGGGAAGCTGTGCCGGGCC	2174
QY	1864	-----	1863	Db	80436	GGCTGGGACTGGAGCTGGAGCAGGCACTTGCAGCCGGGAAGCAGGAGTGTGCCGGGCC	80495
Db	79356	CATGACTGTGGCTGGGAGGGGACGGCTTGGAGCCAGCTTAACTTGTATGAATAT	79415	QY	2175	AAGTACTACAGGCTGGCCACAGCTGGGCAAGGCTCTCCGTGGAGTGGACTCCAGTCCC	2234
QY	1864	-----	1863	Db	80496	AAGTACTACAGGCTGGCCACAGCTGGGCAAGGCTCTCCGTGGAGTGGACTCCAGTCCC	80555
Db	79416	ATGAGGATGAATTTACTGTGTAATAGCCCTTCTTATTCACCTGCAACTGGGTCTGC	79475				



QY	2235	TGGAGCAGCAGTGTGGAGCAGCATCCCTGTGTGATGACTGGCAGCTAAGGAGGACCTC	2294	Db	81636	CTGGCATGACTCCTGAGTAGTATTGAGGCTGCAGGGCCTTGGGCTCCAGAGCAGCTG	81695
Db	80556	TGGAGCAGCAGTGTGGAGCAGCATCCCTGTGTGATGACTGGCAGCTAAGGAGGACCTC	80615	QY	2424	-----	2423
QY	2295	GGAGTGGACCCGAGCAGCAATAACGAATGACCCAGGCCAAGGAAGGAGGACACAGAG	2354	Db	81696	GTATGGCCCTCTGCACCTTCACGCCCATGGATGTGATACACAGGCCCTGCTGCTCCAGA	81755
Db	80616	GGAGTGGACCCGAGCAGCAATAACGAATGACCCAGGCCAAGGAAGGAGGACACAGAG	80675	QY	2424	-----	2423
QY	2355	GCCCCAGGAGTGGGTGGAGTGGAGTGGCTGGGACGTTGTGTGCAATAGAGAGTCTC	2414	Db	81756	AAGGCTCAGAGCCTTTAGCAGGGAGGACACAGCTGGGCTTTAGACCTCAGGTCCTAAG	81815
Db	80676	GCCCCAGGAGTGGGTGGAGTGGAGTGGCTGGGACGTTGTGTGCAATAGAGAGTCTC	80735	QY	2424	-----	2423
QY	2415	CACACCAGA-----	2423	Db	81816	TGAATCTGAGCAAGTCAGTGAACAGTTCTCTTCTCAATTCTCCACCTGTAAAGCCAGGT	81875
Db	80736	CACACCAGATGCTTCCAGATTCTGTGCTCTGGCTTTGTGTCCAGCAGGCCCTGCAGT	80795	QY	2424	-----	2423
QY	2424	-----	2423	Db	81876	ATGATAACGCCCATACAGGGCTTAGTGACAAACACATAAANAAGTGTAGTCTCCTCTCTGT	81935
Db	80796	TTATTTTTCACAGTGCACAGAGAGAGAGAGAGGCTGCATGTGTACCGTGTGTGGCAA	80855	QY	2424	-----	2423
QY	2424	-----	2423	Db	81936	AGCAGAGGTGACAGCCAAGGGCAGTCCCTGTCTATCCAGGCCTGGTAGGGGGCAGCCCTC	81995
Db	80856	GGCAGGGCTTGGCTTGGGCGAGGGGCCCTGCTTCTTTCCACAGCTTCTTCCAAAC	80915	QY	2424	-----	2423
QY	2424	-----	2423	Db	80916	AGCAGGAGTGGGGCTGGGGCTGTGGGTGGTCCCTCAGGAGCTTTATTTACTGTCTC	80975
Db	80916	AGCAGGAGTGGGGCTGGGGCTGTGGGTGGTCCCTCAGGAGCTTTATTTACTGTCTC	80975	QY	2424	-----	2423
QY	2424	-----	2423	Db	80976	AACATAGTAGTATGTTCCAGGCCAGCCAGAGTGGCGTGGCAGGAGGCTGAGGCCCG	81035
Db	80976	AACATAGTAGTATGTTCCAGGCCAGCCAGAGTGGCGTGGCAGGAGGCTGAGGCCCG	81035	QY	2424	-----	2423
QY	2424	-----	2423	Db	81036	CCCTCTGGAAGAGCTGTGGAGAGAAAGACCCCATCTCTGGCACGGCCAGACTGGG	81095
Db	81036	CCCTCTGGAAGAGCTGTGGAGAGAAAGACCCCATCTCTGGCACGGCCAGACTGGG	81095	QY	2424	-----	2423
QY	2424	-----	2423	Db	81096	TCCAAGATCCTGATCCACCCAGATGTGCTCTCCAGGCTCTGGCCAAAGGGGGCTGGA	81155
Db	81096	TCCAAGATCCTGATCCACCCAGATGTGCTCTCCAGGCTCTGGCCAAAGGGGGCTGGA	81155	QY	2424	-----	2423
QY	2424	-----	2423	Db	81156	GCCTGGAGCCCTGTACGAGCCAGCCAGGAGTACCATCAGCTCCCGTGGTGGTCCAAAT	81215
Db	81156	GCCTGGAGCCCTGTACGAGCCAGCCAGGAGTACCATCAGCTCCCGTGGTGGTCCAAAT	81215	QY	2424	-----	2423
QY	2424	-----	2423	Db	81216	AGGACTTTACAGTCCAGATGCAACTGACAGCTTCTTCCAACTGCAATCCCGCTTTCC	81275
Db	81216	AGGACTTTACAGTCCAGATGCAACTGACAGCTTCTTCCAACTGCAATCCCGCTTTCC	81275	QY	2424	-----	2423
QY	2424	-----	2423	Db	81276	ACACTTGAGCTGCTCTGGCCTGTGGGCCAGGCTTCTGGGGTCTTCTGGGGTGGCTTG	81335
Db	81276	ACACTTGAGCTGCTCTGGCCTGTGGGCCAGGCTTCTGGGGTCTTCTGGGGTGGCTTG	81335	QY	2424	-----	2423
QY	2424	-----	2423	Db	81336	TGATAGAAACAATGCTGAAGCTTCGGGAGAGCCCGTGGTTGTTGAGGCCCAACAGAC	81395
Db	81336	TGATAGAAACAATGCTGAAGCTTCGGGAGAGCCCGTGGTTGTTGAGGCCCAACAGAC	81395	QY	2424	-----	2423
QY	2424	-----	2423	Db	81396	TTCCAGGAATCAGGGTTATCATCAGTGTGAGAATGGTCCCAAGACTCTGGTCTATA	81455
Db	81396	TTCCAGGAATCAGGGTTATCATCAGTGTGAGAATGGTCCCAAGACTCTGGTCTATA	81455	QY	2424	-----	2423
QY	2424	-----	2423	Db	81456	CGAAGTCTCTCTTCCCTGCCCTTCAGCACTTCCCTTAGGAACCAAGCTACTGCCAGGAC	81515
Db	81456	CGAAGTCTCTCTTCCCTGCCCTTCAGCACTTCCCTTAGGAACCAAGCTACTGCCAGGAC	81515	QY	2424	-----	2423
QY	2424	-----	2423	Db	81516	GCCTTTGCGAGGCAGAGCTCACCCAGGAAGCTCCAGGAGCTCCACCCTCTTGGCTTGGT	81575
Db	81516	GCCTTTGCGAGGCAGAGCTCACCCAGGAAGCTCCAGGAGCTCCACCCTCTTGGCTTGGT	81575	QY	2424	-----	2423
QY	2424	-----	2423	Db	81576	ATTGCCCTGAGTCTGGCAGCAGGAGGACATTGTCTGCCAGAGAGAACTCATGGCCC	81635
Db	81576	ATTGCCCTGAGTCTGGCAGCAGGAGGACATTGTCTGCCAGAGAGAACTCATGGCCC	81635	QY	2424	-----	2423
QY	2424	-----	2423				

Db	82716	CCATTTTGTGTC	TCTCAGCTGCAAGAGGCCACAAAGGAGGAGGGCTCATGGGACTGCTG	82775
QY	2424	-----	-----	2423
Db	82776	AGAAAGAGGTG	TGCAGAAAGGAGTGTGGCCTAGATCAGTCCCTTTAAAAAGCCTCTGTT	82835
QY	2424	-----	-----	2423
Db	82836	ACCTGAAGGAGGT	CAAGCAGAGAGAGGAATGGCTGCGTGTGTGCTACCGGCGAGGACAG	82895
QY	2424	-----	-----	2423
Db	82896	GACAGAGGGAGT	CATTGTTACACACATCCCCCTCCTTTCTCTCTCCCTCCACTT	82955
QY	2424	-----	-----	2423
Db	82956	CCCTGTGAAGCCT	TGAGCGAGCTGTGGCCAGGCTCAGGCCCTGACTGTGGGTACACAC	83015
QY	2424	-----	-----	2423
Db	83016	CAGGGAGGGCC	ACSCCTCCCCACAGACGGGTGGAGTGGTCACTGGAGCCAGCACCCCTCT	83075
QY	2424	-----	-----	2423
Db	83076	GCTGCTTACGAT	CTCGGCTGGAGCAGCTGTCCCTCTCTCTCAGGCTCCATCCGAAC	83135
QY	2424	-----	-----	2423
Db	83136	AAAAGGAGCAG	AGCCTGAGATCCGGCACCGGCCATCCCTCCACTCAGCAGCTGAGTTAG	83195
QY	2424	-----	-----	2423
Db	83196	AGCTGGGTGGG	GCATGCTGCTTACACGCTGCCTTATGGCTTCTGTGCTCCAACAG	83255
QY	2424	-----	-----	2423
Db	83256	CCCTCAGCCTCT	GGCTGCTCTCTTCCCAATAGTCACAAGATTACCATGATAATAATAG	83315
QY	2424	-----	-----	2423
Db	83316	GTTAAGACTTGA	ATGGTGTTCATCTTCTTCACCTGCTCACGTTACGTTA	83375
QY	2424	-----	-----	2423
Db	83376	TTTTTATCCTGA	TACAGAAATAGTACTACAGTATTTTTTACTCTGGTTTTACAGTCAAA	83435
QY	2424	-----	-----	2423
Db	83436	GAAACTGAGGC	CACGGCAGGTTGCCCAAGGTCACTAAGTCTTAATAGCAGGTAGAC	83495
QY	2424	-----	-----	2423
Db	83496	AGGTGAAGTAA	CTGGATGTATCAGCCATGCCCTTTCCCAATGCCCGGCACCTCCCA	83555
QY	2424	-----	-----	2423
Db	83556	TGACAGCTCTCT	GAATCCCAACAATTTATTTCTTTTCAGGATTAGACCCAAAGCATATAAA	83615
QY	2424	-----	-----	2423
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ACCESSION AC004241  
VERSION Gi:3108007  
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SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;

Primates; Catarrhini; Homnidae; Homo.	
1 (bases 1 to 158784)	
Muzny, D., Arenson, A.D., Brundage, E., Carvelli, K., Chen, E., Di, W.,	
Ding, Y., Dugan, S., Durbin, J., Forcum, J., Ganesh, R., Garcia, C.,	
Goodman, M., Gorrell, J.H., Haywood, M., Jackson, L., Kampal, R.,	
Karpathy, S., Leal, B., Li, Y., Liu, W., Logan, O., Lu, J., Ly, T.,	
Martinez, C., Osval, G., Perez, L., Rashid, N.D., Rowland, K.,	
Savage, L., Scherer, S.S., Shen, H., Timms, K.M., Todd, J., Vo, O.,	
Worley, K.C., Yu, W., Chinault, C., Nelson, D. and Gibbs, R.A.	
Direct Submission	
Unpublished	
2 (bases 1 to 158784)	
Worley, K.C.	
Direct Submission	
Submitted (28-FEB-1998) Molecular and Human Genetics, Baylor	
College of Medicine, One Baylor Plaza, Houston, TX 77030, USA	
[WARNING] On Jul 1, 1998 this sequence was replaced by a newer	
version gi:3282154.	
On May 2, 1998 this sequence version replaced gi:3046263.	
* NOTE: This is a 'working draft' sequence. It currently	
* consists of 9 contigs. The true order of the pieces	
* is not known and their order in this sequence record is	
* arbitrary. Gaps between the contigs are represented as	
* runs of N, but the exact sizes of the gaps are unknown.	
* This record will be updated with the finished sequence	
* as soon as it is available and the accession number will	
* be preserved.	
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* 157400 157419: gap of unknown length	
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* 158122 158141: gap of unknown length	
* 158142 158784: contig of 643 bp in length.	
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Matches 2433; Conservative 0; Mismatches 1; Indels 12584; Gaps 12;	
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QY	1919	-----GTGCTCTCTCACTCAGAAAGCGAGTTTCCACCTCCACGAGGACAGCC	1970
Db	79915	CCCCCGAGTGCCTCTCTCACTCAGAAAGCGAGTTTCCACCTCCACGAGGACAGCC	79974
QY	1971	AGGTGGCGAGGATTTCCACAT	1991
Db	79975	AGGTGGCGAGGATTTCCACATGTAAGTGGTGGCGATGTTGGGTGGCGAGGAGGGGTG	80034
QY	1992	-----	1991
Db	80035	CTTATGTAGTTACCCATGSGTGGCACATCCTAGGCATTTGCCATGTGCCAGGACGGAG	80094
QY	1992	-----	1991
Db	80095	CCCGGCCCTTCCATACATGATGTTGATAATGTTACGCTCTGTGCTCTGAGCCAGGGGC	80154
QY	1992	-----	1991
Db	80155	TCCTCGGTCCCTCACCCGTGGGTGGGACAGGACAGCCCTCTTTAGGAATTTGGTATGG	80214
QY	1992	-----	1991
Db	80215	GAAGTGGTTGGTGGTGGAGGCAAGAAAGCAGATGTGATGGCTCTTGAGGGG	80274
QY	1992	-----GCT	1994
Db	80275	AAAGTTGGTTCCAAAGGGGCATCAGTGCCTCCCTGACTACTCTCTCCACAGGCT	80334
QY	1995	CGGAGAGTCCCTGAGCACCCGAGTCCAGCCAGCACCTGGGCTTATGTCCAGCAGCTGA	2054
Db	80335	CGGAGCAGTCCCTGAGCACCCGAGTCCAGCCAGCACCTGGGCTTATGTCCAGCAGCTGA	80394
QY	2055	AGTCTATTGACAAACCGGGAACTCTCCGCCCTCTCCGAGAGCTGGAGCCATGAGGAG	2114
Db	80395	AGTCTATTGACAAACCGGGAACTCTCCGCCCTCTCCGAGAGCTGGAGCCATGAGGAG	80454
QY	2115	GGCTGGGACTGGAGCTGGAGCAGGCACTTGACGGCGGAAGCCAGGGTGTCCGGGCC	2174
Db	80455	GGCTGGGACTGGAGCTGGAGCAGGCACTTGACGGCGGAAGCCAGGGTGTCCGGGCC	80514
QY	2175	AGATACTCACAGGCTGGCCACAGCTGGGCAAGGCTCTCCGTGGATGGACTCGAGTCCC	2234
Db	80515	AAGTACTCACAGGCTGGCCACAGCTGGGCAAGGCTCTCCGTGGATGGACTCGAGTCCC	80574
QY	2235	TGGAGCAGCAGTGTGGAGGAGCCATCCCTGTGTATGACTGGCAGCTAAGGAGGACCTC	2294
Db	80575	TGGAGCAGCAGTGTGGAGGAGCCATCCCTGTGTATGACTGGCAGCTAAGGAGGACCTC	80634
QY	2295	GGAGTGGACCCGAGCCAGGAATAACGAATGACCCAGGCCAAGGAGGAGGACAGAGAG	2354
Db	80635	GGAGTGGACCCGAGCCAGGAATAACGAATGACCCAGGCCAAGGAGGAGGACAGAGAG	80694
QY	2355	GGCCAGGAGTGGGTGGAGTGGAGTGGCGCTGGACGTTGTGTGCAATAGAGAGCTCTC	2414
Db	80695	GGCCAGGAGTGGGTGGAGTGGAGTGGCGCTGGACGTTGTGTGCAATAGAGAGTCTC	80754
QY	2415	CACACCAGA	2423
Db	80755	CACACCAGATGTCTTCAGATTCTGTGCCTCTGGCTTTGTGTCTCCAGCCAGGCTGCAGT	80814
QY	2424	-----	2423
Db	80815	TTATTTTACAGTGGACAGAGAGAGAGAGGCTGCATGTGTACCGTGTGTGGCAA	80874
QY	2424	-----	2423
Db	80875	GGCAGGGCTTGGCTGGGCGAGGGCCCCCTGCTTTCTTCCACAGCTTTCTTCCAAAC	80934
QY	2424	-----	2423

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Db	80935	AGCAGCAGTGGGCTCGGGCCCTGTGCGGTGCTCCTTGAGGAGCTTTATTTGTACTGTC	80994
QY	2424	-----	2423
Db	80995	AACATAGTAGTATGTTTCCAGGCCACCCAGAGTGGGGTGGCAGGAGGCTGAGGCCCG	81054
QY	2424	-----	2423
Db	81055	CCCTCTGGGAAGGAGCTGTGGAGGAGAAGCAGCCCCATGTGTGGCAGCGGCCAGACTGG	81114
QY	2424	-----	2423
Db	81115	TCAAAGATCCTGATGCCATCCACAGATGTCTCCAGGCTCTGCCAAAGGGCGGTGGA	81174
QY	2424	-----	2423
Db	81175	GCCTGAGCCCTGTGAGCAGCAGCAGCCAGGGTGACCATCAGCTCCCGGTGGTGGTCCAAT	81234
QY	2424	-----	2423
Db	81235	AGGACTTTACAGTCCAGATCCAACCTGACAGCTTCTTCCCAACTGCAATCCCCCTTTTCC	81294
QY	2424	-----	2423
Db	81295	ACACTTGAGCTGCTGCTGGCCTGTGGGCCAGGCTTCTGGGGTCTTCTGGGGTGGCTTG	81354
QY	2424	-----	2423
Db	81355	TGATAGAAACAATGCTGAAGCTTCCCGGAGAGCCCCGTGCTGTTGTGAGGCCCAACAGAC	81414
QY	2424	-----	2423
Db	81415	TTCCAGGAATCAGGGTTTATCATCAGTGTGAGATGTTCCAGCAAGCTCTGGTCTATA	81474
QY	2424	-----	2423
Db	81475	CGAAGTCTCTCTTCCCTGCCCCCTTCAGCAGCTTCCCTTAGGAACAGCTACTGCCAGGAC	81534
QY	2424	-----	2423
Db	81535	GCCTCTTGGAGGACAGAGCTCACCCAGGAAGCTCCAGGAGCTCCACCCCTCTTGCCCTTGC	81594
QY	2424	-----	2423
Db	81595	ATTGCCCTGAGTCCCTGGCAGCAGGAGGCACCTTCTCTGCGCAGAGAGAGAATCATGGCCC	81654
QY	2424	-----	2423
Db	81655	CTGGCATGACTCTCTGAGTAGGTATTGAGGCTGCAGGGCCTTGGCGTCCAGAGGACGCTG	81714
QY	2424	-----	2423
Db	81715	GTATGGCCCTCTGCACCTTCAGCCCCATGGATGTGGATACACAGGCTCTGCTGTTCCAGA	81774
QY	2424	-----	2423
Db	81775	AAGGCTCAGAGCCTTTAGCAGGAGGACGACAGCTGGGCTTAGACCTCAGGTCACATAAG	81834
QY	2424	-----	2423
Db	81835	TGAATCTGAGCAAGTCAGTGAACAGTTCTTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT	81894
QY	2424	-----	2423
Db	81895	ATGATAAACCCCATACAGCGCTTAGTGACAAACACATAAACTGTAGTCTTCTTCTTCTTCT	81954
QY	2424	-----	2423
Db	81955	AGCAGAGGTGACAGCAAGGGCAGTCTCTGTGTCTATCCAGGCTTGGTGGGGGCGAGCCCTC	82014
QY	2424	-----	2423



Db	82015	GCCTCAGTTGAGGGCTGAGGGAGAGACTGAGTGCAGCAGATGGCAGTGGTAACCAAAACC	82074	QY	2424	-----	2423
QY	2424	-----	2423	Db	83155	AAAAGGAAGCAGAGCCTGAGATCGGCACCCCATCCCCCTCCACTCAGCACTGAGTTAG	83214
Db	82075	AGTTCCCTTGCGGTGGGTGGGACACAGGAGAGACGGAAGCATCTGGAATGAGCAAT	82134	QY	2424	-----	2423
QY	2424	-----	2423	Db	83215	AGCTGGGTGGGGCATGTCTGCCTTCACACGCTGCCTTATGGCTTCTGTGTCTCCAACAG	83274
Db	82135	CAGGACAGAGGCTCAAGCCTGGGTGAGTCAGGAGTCGGGGGCTTCTTTTCATCAAC	82194	QY	2424	-----	2423
QY	2424	-----	2423	Db	83275	CCCTCAGCCTCTGGCTGCTCTCTCTCCAAATAGTCACAAGATTTACCATGATAATAATAG	83334
Db	82195	CCATTGTCTGTGGTGTCTCGCAAAAGCCAGCCAGCAGCGGTGGCCCTTCACCGTCTCT	82254	QY	2424	-----	2423
QY	2424	-----	2423	Db	83335	GTTAAGACTTGAATGGTGTCTTCATCTTCTTCATCTTCACCTCTCTCACCTTACGTTA	83394
Db	82255	TCAGACTTAGGGTAGCCCGCCAGCCGACGACACACAGAAACCAAGTGCACGGGGCGG	82314	QY	2424	-----	2423
QY	2424	-----	2423	Db	83395	TTTTTATCTGTATGACAGAAATAGTACTACAGGTATTTTACTCTGGTTTACAGTCAAA	83454
Db	82315	GTGTCTCCACCAGCATTTCTCCTCTGTGTACATCTACGTCCTGATGGACTTCTCCCTC	82374	QY	2424	-----	2423
QY	2424	-----	2423	Db	83455	CAAACTGAGGCACAGGCAGGTTTGCCCAAGGTCACATAACTGCTTAAATAGCAGGATAGAC	83514
Db	82375	CTCCTTGAACCATCAGCTTTACAGTCCAGACCACCTGCAGCCACCCGCTGTCTCCAG	82434	QY	2424	-----	2423
QY	2424	-----	2423	Db	83515	AGGTGAAGTAACTGGATGTATCAGCCATGCCCTTTCCCCATGCCCGGCACCTCCCA	83574
Db	82435	CTGCCCCAGTCTCGGGCAGGATGGCTTTTGTAGCCTGTGGGAGAGACCTTGCCAGGAGAA	82494	QY	2424	-----	2423
QY	2424	-----	2423	Db	83575	TGACAGCTCTGTGAATCCCAACATTTTATCTTTTGCAGGATTAGACCAAGCATATAAA	83634
Db	82495	TGGTGCCAGGCAGGCAAGACAGACAGACTCTGGGAGTAGAAGATTGGGGCCAGG	82554	QY	2424	-----	2423
QY	2424	-----	2423	Db	83635	TTCTTTTTCCTCTCTCCATTCACACATTTCTTTTATTTTACAGTACTTACTATAGGCT	83694
Db	82555	GGGCCAGGCCACTCCAGAGGACAGGAGGCCCAAGGGGAAAGGCTCCATGTAGGG	82614	QY	2424	-----	2423
QY	2424	-----	2423	Db	83695	TGTAGGGCTCTGTCAACAAGACAAGGCCAGGTGCTGGGTGATGCTGTAAATCCCA	83754
Db	82615	TGGCCCCATGTGGGAGTTTGTGTGCTTCTGTCTCCTGACTGCCCAAGCGTGGGTG	82674	QY	2424	-----	2423
QY	2424	-----	2423	Db	83755	TGCTTTTGGAGGCTAGGCATTTGAGACCAACCTGGGTAAACAAGCAAGACCCGGTCTCTA	83814
Db	82675	GTGTGGGCAGGAGCATCCTCTGTGTTCCTAGCAGCCAGGCTGTGTGAGGGGCTC	82734	QY	2424	-----	2423
QY	2424	-----	2423	Db	83815	TAAAAATAAAAAATTTACCCGGGTATGGTGTGCACCTGTAGTCTTACTTGGGAG	83874
Db	82735	CCATTTTGTCTCAGCTGCAGAGGCCACAAAGGAGGAGGGGCTCATGGGACTGTGT	82794	QY	2424	-----	2423
QY	2424	-----	2423	Db	83875	GTTGAAGTGGGGGATCAGTTGAGCCAGGAGTTCGAGGTTACAGTGAGCTATAACTGCA	83934
Db	82795	AGAAGAAGTGTGCAGAAAGGAGTGTGGCCCTAGATCAGTCTTTAAAAAGCCTCTGT	82854	QY	2424	-----	2423
QY	2424	-----	2423	Db	83935	CTCGTCTTCTTTTGTGTGTCAGAGAAAGACTCTCTCTCTAAAAAGAAAAAACCAAGAC	83994
Db	82855	ACCTGAAGGAGTCAAGCAGAGAGGAATGGTGTGTGTCTCTCTACCGGGCAGGACAG	82914	QY	2424	-----	2423
QY	2424	-----	2423	Db	83995	TGGTAGTCTTGCCCTCATGGGTCAATCATCCAGCTAGGCAGCAAGACTATCAGTAAC	84054
Db	82915	GACAGAGGAGTCAATGTGTACACACACATCCCCCTCTCTTCTCTCTTCCCTCCACTT	82974	QY	2424	-----	2423
QY	2424	-----	2423	Db	84055	AAAAGATGCCGAGGATAAAGTCCAGAGCAGAGCAAGTCCCAGGGCTGCAGCATCTCAGTG	84114
Db	82975	CCCTGTGAAGGCTCAGCAGGCTGTGGCCAGGCTCAGGCCCTGACTGTGGGTTACACAC	83034	QY	2424	-----	2423
QY	2424	-----	2423	Db	84115	CTTACCCCAAGCATTAAGGCCCCAGAGCTGCTCCCGTTGGAGCATAGTTTCATAGCCCCAG	84174
Db	83035	CAGGAGGGCCAGGCTCCCCACACAGGGGTGGAGTGGTCAAGTGAGCCACCCCTCT	83094	QY	2424	-----	2423
QY	2424	-----	2423	Db	84175	CTCCCTGAGCCCTGCACAGCTCTGTCCCTCAGATGGGATGCTCTCCACTCATCTACCTG	84234
Db	83095	GCTGCTTCAGCATCTCCGCTGGAGCCAGCTGTCCCTCTCTCTCTCAGGGCTCCATCCGAAC	83154				

Qy	2424	-----	2423
Db	84235	GCACAAGCCACCTGAGTAGCAGGCAGGATATGGTGGCTGGTGGCTGCAGCAAAATTCAGACC	84294
Qy	2424	-----	2423
Db	84295	TGGCAGTTGCTCTCAACCCCTTTCTCCCTTCCACAGACCTACAGGCCAAGAAATACATGT	84354
Qy	2424	-----	2423
Db	84355	CTTTCCAAATGTGTCCTAGTACCCCAACCCACACTCAGTATTGAGCTCTCTCTACATCT	84414
Qy	2424	-----	2423
Db	84415	GCCAGGCCATGGATCTATACTAAGTAAGTGTCCACCAGCCCTGTCCAGTTGCTGCAGCC	84474
Qy	2424	-----	2423
Db	84475	AATTCAGGCACCTCTCTCTCAGATCTCTGAGCTCTTCAAGACCTGAGCTGTAGCTTCTCTG	84534
Qy	2424	-----	2423
Db	84535	CAACACAGTCTGCTGGCATCTGAGGTGAAGGGCTTGCAGGCCAGGGCACGGTGACTG	84594
Qy	2424	-----	2423
Db	84595	CCGTCCCTCCAGTGATGATAAACTGGATCATCTTGAGAAAGCCGAGTCTGACTCAGCTG	84654
Qy	2424	-----	2423
Db	84655	CAGTTAGAAAGAGTCTTCTCTCCATGCTTCCATGCTTGGGGGCTTCTTGAGCAGGTGCTCGATG	84714
Qy	2424	-----	2423
Db	84715	GGGTCAGGGGAGGATGCTCTCTGGTGGTAGCTGTAGTACACACAGAGGAGGCTGTGACTCC	84774
Qy	2424	-----	2423
Db	84775	CAGAAGAAGACAGAAGGTTAAGCTCACAGTTTGGACCCACTTTTGTGCTAGGAGGTGTG	84834
Qy	2424	-----	2423
Db	84835	GGATTCGTGTGTCATGTGTGTGGACTGTGACCACTGTGACCACTGTGACCCCTGGACAGGAGC	84894
Qy	2424	-----	2423
Db	84895	TGGATGCTTCAGGCTTCACCTGACCTCTGCTGCTTGTCTTTGGCCCTTGGAGAGCACT	84954
Qy	2424	-----	2423
Db	84955	TGGATCTTGGTTTTCTCACTGGAGTGAGTTGTAGCAGCTAGAGCTGTTTTTGGACTGCTG	85014
Qy	2424	-----	2423
Db	85015	AATGGAGGGCTACTGGCTTCTTGGCACTTAGGGATCTTAGGGATCTAGCTAGCAGAGGGGTAG	85074
Qy	2424	-----	2423
Db	85075	AGACAGGTGCCTTTTTAGGGGCCATGACAACAGGATATTTAAGCTTACTTGCACCACC	85134
Qy	2424	-----	2423
Db	85135	CAGAAAAGTGCCTGTCTCACACAGAGTATAAGGCAGCATAGGTGGATCCCATAGGTGGCA	85194
Qy	2424	-----	2423
Db	85195	GTGTGCTGGGCAGGGGGCTCCATCTCTCAGCAGCCCTGGCAAGGCAAGGCCTTCC	85254
Qy	2424	-----	2423
Db	85255	TCCTCCCTGGGCTCACTTTTCCCATTTAGAAAACAGGAATTTGGATGAGAAGTCTTTGAGG	85314
Qy	2424	-----	2423

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Db	85315	ATCTATGAATTTGGCAACTCAGGGTGTCAAAAGGGGAAGGGTCTAGGCCCTTTAAGCA	85374
Qy	2424	-----	2423
Db	85375	TCCTCCCATGGTGGCTTCCAGCGCTGACTGCTCATGGGAGGATAGTAGCTGCAAGCA	85434
Qy	2424	-----	2423
Db	85435	CTGTTTTATTGGAGGGGTTCTCAGAGCTCCCTACCCCTGAGTGTGCTCCCTGCTACCTG	85494
Qy	2424	-----	2423
Db	85495	CTTGAGTGCATGACTGTGCTTCTACTCTTTGAGTTCAGTTGTCTAGTAGTAGTAGAGGCCCC	85554
Qy	2424	-----	2423
Db	85555	TGTTATGATAGATACATAAGTTGGGAAGATTCTAATGCCCAATTTGATATTCTAATAAT	85614
Qy	2424	-----	2423
Db	85615	ATTTCTAATGGTCACITTTTAAAGAATAGAAAAGAAGAGCCCTCGAGCAATGCGCATTAG	85674
Qy	2424	-----	2423
Db	85675	GGGAATTTAATGGCATGATCAGGTGCAAGGTCCAGAGATGATTACTTAGGGTGGAGAA	85734
Qy	2424	-----	2423
Db	85735	TGTTACAGGGGTCTTGGGACACAGGGCATCCAGGGTGGGAATCAGAGGGAGAGTAGGTG	85794
Qy	2424	-----	2423
Db	85795	GCCAGTTTACCCCTCTCAGCGTTCTTGGGGCTGAGCCCTGCAGGAGCAACTGTGTCTG	85854
Qy	2424	-----	2423
Db	85855	GAGGAGAGCTGCATGCAGCTGAGCTGTGTGGCCACCGAGAAGGTCAGCAATCT	85914
Qy	2424	-----	2423
Db	85915	CTGTTCTCTTCTCCGGTTCTTGACTTTGCACCAGGCAGCTGTGGATTATCTCATCAAT	85974
Qy	2424	-----	2423
Db	85975	AGAGCACAGGCTCAGAGGCTGAGCCATGGAGTTGCTGCTCTTAGCTTAGCCCCATTGC	86034
Qy	2424	-----	2423
Db	86035	AACTTTTAGCTTCCCCCAGAGCAAGCACTGTTCTTAAGGCTGCAGGCCACAGCCCCAGA	86094
Qy	2424	-----	2423
Db	86095	AAACAGTGGTTCTCTTTTGGCACCAAAACCAGGTGAGTTAGACAGTGGGACTCATCAAGG	86154
Qy	2424	-----	2423
Db	86155	GCCATCCCCAAGACTTGAAAAATACCAGAGGTGCACGTTTTTTAAATGAAAAATATATCTT	86214
Qy	2424	-----	2423
Db	86215	TGGAATTATAAAATAAATATTACATTATAGAGACTGTAGATTAGAGGAGCTGCCACCTTC	86274
Qy	2424	-----	2423
Db	86275	TCACTATTGTCAATTTTCAGAACTTTTTTTTTTTTTTTTTTTTGTAGAGGGAGTCTTGCTCTGTC	86334
Qy	2424	-----	2423
Db	86335	GCCCAGGCGGAGTGCAGTGGCGGATCTCAGCTCACTGAAAGCTCCACCTCCCGGTTTC	86394
Qy	2424	-----	2423





Db	1648	GTCACTTTTCTGGTCTTCTCAGTGTGAATGATGGCTAGCATTAATGGAGGTGGAGTGC	1707
Qy	1163	-----	1162
Db	1708	GTCTGTTTGAAGTGCAATTTTCATGCAGTGTGTPAAGACATGAGCTCTGGAGCCTGCTGCTT	1767
Qy	1163	-----	1162
Db	1768	GCATTTCGGCACCAGCCCTTTAGCTCACCATCTGTGTCTCTGGCAGGTACTTCATCC	1827
Qy	1163	-----	1162
Db	1828	CTCTGCTCAGTTTTTATCATCCATAAAATGGGAATAGTAGGAGTACTTGCCTCTGGAG	1887
Qy	1163	-----	1162
Db	1888	GAATTGTCAGGATCAATTGAGTTTCATCTATGAAAGCATTTAGAATGGTGCCCGGCACATA	1947
Qy	1163	-----	1162
Db	1948	GTGATACATAAGTATTAGCTGCTATTATTATCATCATTTGTGTTAGTCATTTAATATGA	2007
Qy	1163	-----	1162
Db	2008	ATTAATAACAATCTCATGAGATACAGTACTTTTATCCTATTTTCAGACAAGAACACTGA	2067
Qy	1163	-----	1162
Db	2068	AGCTCAAGGGGATGAGCTATTCTCAAGCTCACACAGTGAGAGTAGCTGGTTTGGAAAC	2127
Qy	1163	-----	1162
Db	2128	TTAAGTAGTCTTCATTTTGTGTAGTCACTCAGCAACATTTTGGAGTACAGTATGAGCC	2187
Qy	1163	-----	1162
Db	2188	AGCAATATGTTAGGAGCTGGAGATACACAGCAGGTAAACAGGTACAGCTTGATGGTTAA	2247
Qy	1163	-----	1162
Db	2248	GAGCATAGACGTGGACTCCCAGACCCGTTGAGGCATCTTAGGTCACCATTTACTAGCT	2307
Qy	1163	-----	1162
Db	2308	GTGTGATGTGGCAAGTTGCTTAACCTCTCTGAGCCTGCATTTCTCACCTGTCTAGATG	2367
Qy	1163	-----	1162
Db	2368	AGGACTGTAATTTGATATCTACCCACAGGGTTGCAATGGCTAAGTAGCTAAATGTGTAAA	2427
Qy	1163	-----	1162
Db	2428	GCACITAGCACAGGGCCTGCCAGTCAGTCTGAGAACATGGCGGCTCAGGAGTATTAAAG	2487
Qy	1163	-----	1162
Db	2488	ATGGGCCCTCAGAGAACCTGGAACATTCAAAACCACTGTCTCTCGGGAGGCGACGGCT	2547
Qy	1163	-----	1162
Db	2548	TCAGACTGGAACCCAGGCGCAGACAAGAAATTAGGGCGTTCAAGAGTGGGATGAGAAA	2607
Qy	1163	-----	1162
Db	2608	AGAAAAGCCTTCTCCCTTCAGGAAGTGGGAGAGATGGTCACCTGTGTGCCCTGCCCTGG	2667
Qy	1163	-----	1162
Db	2668	GAAGCACTGCCCTCTGCTGGCCACCTGGTGTGAGTTGCAGTTGCCAAAGGTCATGTTATT	2727
Qy	1163	-----	1162
Db	2728	GAGACCTTACTATGTGCCAGGCACCTGTTTAGGCACCTGATCTCCGAAGCACTTTGGATCGA	2787
Qy	1163	-----	1162
Db	2788	CACCCATGTCAATAACCAACATTTAAATTAAMACCCACACCCACACTGTGTGAATATTGTT	2847
Qy	1163	-----	1162
Db	2848	TGTAAGTAATACACATATATTACTACATTAATATATCATATAAAGATAGATAAATAGAAA	2907
Qy	1163	-----	1162
Db	2908	TTGATGGAGTAGAATGCAAGCAGGTAGAAAAAGTAAACGTPAAGTAGAAGAGCTCATAT	2967
Qy	1163	-----	1162
Db	2968	TTTCCCCAGGCACATGGATGATCTGATGTACCTTACTTTGGAGGCCACTGCTCTAGGGAC	3027
Qy	1163	-----	1162
Db	3028	TGGGACTCAAGCACAGTCCCAGTCCATGAGGAGCTGATGATGATGATGATGATGATGATG	3087
Qy	1163	-----	1162
Db	3088	TATAAGACACTTCCCAATTTTCAAAGGCTTTTATACATAGCATGTACTTATAGTACTTA	3147
Qy	1163	-----	1162
Db	3148	TTTATATACATTAATTTTATTTGACATTTATGAAATAGTTGGGGCAAGCTTTATTTGCTCCAT	3207
Qy	1163	-----	1162
Db	3208	TTTACCAGGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA	3267
Qy	1163	-----	1162
Db	3268	TCATGAGAAATTTTCTCATCTCTTGATGTGCTTCCCTGGGCTGGCTGGCTGGCTGGCT	3327
Qy	1163	-----	1162
Db	3328	GCACATGCACCTGTGTATTCTCAGCACCAACCCAGGACTTCAACCCCGCTACTAGGAGAAA	3387
Qy	1163	-----	1162
Db	3388	CAACCTCTCAGCTTCCCAACAGCACCTCCACCTCCAGCTGGTCCCGGCTCC	3447
Qy	1163	-----	1183
Db	3448	CTCCCTTTCTGCACCACTCCGCTCTGCTGCTTTTGCAGATGGCATTTGGCTTCAGGCA	3507
Qy	1184	GATGCCCTTGGTGGCCACATCTCTGGGCTCAATGAGCGTCTCTTTGTTGTTGTTGTTGTTG	1243
Db	3508	GATGCCCTTGGTGGG-CACATCTCTGGGCTCAATGAGCGTCTCTTTGTTGTTGTTGTTGTTG	3566
Qy	1244	CAGGAAGTGCATGAGCT-----	1260
Db	3567	CAGGAAGTGCATGAGCTGGTAGGGACAGGAGGTGCCAGGCGCCAGGAGGAGATCTA	3626
Qy	1261	-----	1260
Db	3627	TTTTGAGTGTGGCAGTGGGATTTCTGGGAGGGTCCAGGAGGAAGAGGAGGAGGGC	3686
Qy	1261	-----	1260
Db	3687	CTGGCTTGGCTGCTGGGTCTCAGCACACAAGGAGTGGGCTCAGCTGATGGGG	3746
Qy	1261	-----	1260
Db	3747	AATCCCAAGATAGTGCAGGCGGGCTGGTAGCACTGGTTGGGAGCTCCCAAGAGAGAA	3806
Qy	1261	-----	1260
Db	3807	AGAGGAGGACCTGCCCTAGTTAGGGTTTCCCAGGAGACAGGAGCCCAAGAGGAGGTC	3866

Qy	1261	-----	1260
Db	3867	TCAGACTGGGGAGCCCTATCTCCAGCTGCTATAGCCCTAGAGACCCCTCTACTCCCCA	3926
Qy	1261	-----	1260
Db	3927	CTCCTGCCCTCCCTAACCCCTCCTCCTAACACAGCATAGATCCTTGGCCCAACCCCTCTCC	3986
Qy	1261	-----	1260
Db	3987	CCCTAACCTTGCTTTCCCTGGATTCTCAGGCAGCCCTGAGCACTCTCCACCCGC	4046
Qy	1261	-GATCCACACCTGACCACTGGGGCCCACTGTGGGCTCTGTGAGGGCTGACACTGG	1319
Db	4047	AGATCCACACCTTGACCACTGGGGCCCACTGTGGGCTCTGTGAGGGCTGACACTGG	4106
Qy	1320	TGAGTGCCAAAGGACCTGCGAGGCGAGCTGACGACCAACAGCTGGAGCCTTCAACAGTA	1379
Db	4107	TGAGTGCCAAAGGACCTGGCAGGCGAGCTGACGACCAACAGCTGGAGCCTTCAACAGTA	4166
Qy	1380	TCCA-----	1383
Db	4167	TCCACCAAGTATGGAGGCAGAGCTGGGGGAGGAGAGCAGCGCGGGCGCCCGGCTCG	4226
Qy	1384	-----	1408
Db	4227	GCTCAGCACTCGCTGACCTCTCCTGTGCTGACCCACCCAGGTGGAGCTGATCCACTATGTG	4286
Qy	1409	CTGGGCCCCAGCATCTGCGGGATGTCACCACCGCCAACTCGAGCGCTTCATGCGCCGC	1468
Db	4287	CTGGGCCCCAGCATCTGCGGGATGTCACCACCGCCAACTCGAGCGCTTCATGCGCCGC	4346
Qy	1469	TTCAATGAGCTGCAGTACTGGGTGGCCACCGAGCTGTCTCTGCCCGCTGCCCGGCC	1528
Db	4347	TTCAATGAGCTGCAGTACTGGGTGGCCACCGAGCTGTCTCTGCCCGCTGCCCGGCC	4406
Qy	1529	CGGGCCAGCTGCTCAGGAAGTTCAATTAAGCTGGCGCCA-----	1569
Db	4407	CGGGCCAGCTGCTCAGGAAGTTCAATTAAGCTGGCGGCCAGTGAGTCCCTGTCCAGTGG	4466
Qy	1570	-----	1569
Db	4467	GTAGGGGTGGCCAGAGTCCCCCGGCTACCTTTTCCTAAGCCCCCTCTTTGCTTAGTA	4526
Qy	1570	-----	1569
Db	4527	TGTTGCCAAATCTGCCACCCTATTGTTCCTGGGTCCCTCGAGCCTCTGCCCTCCAC	4586
Qy	1570	-----	1569
Db	4587	CCCATCCAGCTTGGATCTCTGCAGAGGCTGGCCTGGCTGTGTCTGGGGSCACTGTAGGG	4646
Qy	1570	-----	1582
Db	4647	GTGGCTGCTTCCCTTACCCTGAGGGTCTCTGGGTCTTCTGCTCAGAGCCTCAAGGAGCAG	4706
Qy	1583	AAGAAATCAATTCCTTTTGCCGTATGTTTGGCTCAGCAACTCGGCCATCAGCCGC	1642
Db	4707	AAGAAATCAATTCCTTTTGCCGTATGTTTGGCTCAGCAACTCGGCCATCAGCCGC	4766
Qy	1643	CTAGCCACACCTGGG-----	1658
Db	4767	CTAGCCACACCTGGGAGTAAGTGTGTGTGGAGGGCCCCCTCCTGAGGTGAGGCCTCA	4826
Qy	1659	-----	1658
Db	4827	GGCCCTCTTGGAGTCTGATGGGCTGGGGCTCCCCCAGACGACCGCGTCACTGCGCT	4886
Qy	1659	-----	1709
Db	4887	CTTTTTCACAGCGGCTGCCTCACAAAGTCCGGAAGCTGTACTCCGCCCTCGAGAGGCTGC	4946
Qy	1710	T-----	1710

4947	TGTTGAGTGTCTCCACCCTGCCCGCTGTGCTAGGATCAGTGGGCTCGGCCCTGC	5006
1711	-----	1710
5007	CTTCCAGACACCTCACTCTTTGGCTTCCCTGACAGCCCTCTACTGCTCTTTGTCACCTT	5066
1711	-----	1710
5067	CAGGGTTCCCAACCTCGGCCACGGGCTAGCTCCAGCCTGTGAGTTTGGGAGCTGGCTG	5126
1711	-----	1710
5127	AGGAAGGGGTGTTACGACCTAGGATAGGGGTGACAGGTGATCCTCGCCCTCAGTGTGT	5186
1711	-----	1710
5187	GCATGGGGGCGAGGATCTCTGTGTGAAGACTGGGCTGGAGCATGTGGGTGTCCAGTCTGT	5246
1711	-----	1710
5247	GGGTCTGAGCTGCCAGGGCAGTGTACAGGGGCTCCAGAGCCCAAGGGCTTGGCATGGAGCG	5306
1711	-----	1710
5307	CCTGTGTGCACAGGGCCTGTCTGCCCTCAGGAATCCGAGGGGCTTGGCGGCTAGACC	5366
1711	-----	1710
5367	AGTAGAGAGCGAGGATAGAGTTGGGGGTGGAACCTCCACCTCCAGGAACCTTTTGAGG	5426
1711	-----	1710
5427	ATTTTGGGGTTTTGACTATTCTGGAGAGAAGCAGAGAGGTACTTTCATCAGCATAGC	5486
1711	-----	1710
5487	CTGGAGCTCTTGAGAGAAATCCACCTCTGGGGCTCAAGGGATTCAAAGGAGTTTACT	5546
1711	-----	1710
5547	CTCAGAGAGAGAGAGGGGAGACACAGAAAGACAGAGGATAGAAAGGACAGAGAGGT	5606
1711	-----	1710
5607	GACAGTGACAGACTTTTCCAAGAAACCTGGGGCCCTGTGACTTAACCTGTGTGAATTTTC	5666
1711	-----	1710
5667	TCAGTCTAATGGGAGGTTGGAAGCCCGTGTTCGCTGTGTGACAGAGCCTGGGTGAGACC	5726
1711	-----	1710
5727	TGGGGCTGAGGAGAGGCTGAGTTGGGGCTCTGCACCTGCTGTGGGATGGGCATGTGGCC	5786
1711	-----	1710
5787	CCTCCTTGGTTGGGTGGGTCTGTGTGGCTTATGTGTGTGCAACCCCTCAGTGTGGC	5846
1711	-----	1710
5847	TTCTTCCCTTAGGATCCCTCATGGAACCAACCGGTATACCGACTGGCCCTCGCCAAAGCTC	5906
1760	TCGCCCTCTGTCTATCCCTTCATGCCCTCTCTTCTCAA-----	1797
5907	TCCCTCTCTGTCTATCCCTTTCATGCCCTCTCTTCTCAAAGGTAAACAGGGCTTCTCGCTC	5966
1798	-----	1797
5967	CATCCCTCCATTCGCCCTTCTGTGCCTCCATCCCCCATTTCCCCCTTCTGTGCCTCCATCC	6026
1798	-----	1797

Db	6027	CCCATCCCATGCTATCTGTGTGTCACCCACTCTGTTGGAGAGATTATACCTCAAGTC	6086	QY	1992	-----	1991
QY	1798	-----	1797				
Db	6087	TGATGCTCAGGAGTGCAGAGATGAATTAGAGTTCTTAGACTGGAAGAATGAAGACAT	6146	Db	7167	GCCCGGCCCTTCCATACATGATGTGTGATAATTTTCAGCCTCTGTGCTGTGAGCCAGGGG	7226
QY	1798	-----	1797	QY	1992	-----	1991
Db	6147	CCAGACAATACGGGCTGCCTTTCAGGGCTTAAGAGATACAAGAAATGCTGTGGGGCTT	6206	Db	7227	CTCTTCGCTCCCTCACCCGTGGGTGGCGACGGACACGCTTTTAGGAATTTGTGTATG	7286
QY	1798	-----	1797	QY	1992	-----	1991
Db	6207	GGAGGGGCAGAGCAGGGGCTCTATGGGTTAGGTAGGCCCAAGGGAGCGCTTATGCC	6266	Db	7287	GGAAAGTGGTTGGTGGTGGTGGAGGCAAGAAAGCAGATGTGATATGGCTCTTGGAGGG	7346
QY	1798	-----	1797	QY	1992	-----GC	1993
Db	6267	TTACCTTTTCTGGGTTACAGAGGGCAGAACTTTGGGACCTATGAACAAAACCCATCT	6326	Db	7347	GAAGGTTGGGTTCCACAAGGGGCATCAGTGCCTCCCTGACTACTCTCTCCACAGGC	7406
QY	1798	-----AGACATGACCTTCATTGAGGGAACACACACTAGTGGAGAATCTCATCAA	1851	QY	1994	TCGAGCAGTCCCTGAGCACCCGGAGTCCAGCAGCACCTGGGCTTATGTCACGACGCTG	2053
Db	6327	CTTTGCAGACATGACCTTCATTGAGGGAACACACACTAGTGGAGAATCTCATCAA	6386	Db	7407	TCGGAGCAGTCCCTGAGCACCCGGAGTCCAGCAGCACCTGGGCTTATGTCACGACGCTG	7466
QY	1852	CTTTGAGAGAT-----	1863	QY	2054	AAAGTCATTGACAACACAGGGGAACCTCTCCGCTCTCCGAGAGCTGGAGGCATGAGGA	2113
Db	6387	CTTTGAGAGATGGTGAAGTCCAGGAGAGCAGGCATTCACACTAACATAGTTGGAGGA	6446	Db	7467	AAAGTCAATTGACAACACAGCGGAACCTCTCCGCTCTCCGAGAGCTGGAGGCATGAGGA	7526
QY	1864	-----	1863	QY	2114	GGGGCTGGGACTGGAGCTGGAGCAGGCACCTTCAGCCGGGAAGCAGGCTGTGCCGGC	2173
Db	6447	CATGACTGTGGCTGGGAAGGGCAGGGCTTGGAGCAGCTTAACTTGTATGAATAAT	6506	Db	7527	GGGGCTGGGACTGGAGCTGGAGCAGGCACCTTCAGCCGGGAAGCAGGCTGTGCCGGC	7586
QY	1864	-----	1863	QY	2174	CAAGATACTACAGGCTGGCCACAGCTGGGCAAGCTCTCCGTGGAGTGGAGTGCAGTCC	2233
Db	6507	ATGAGGATGAATACTTACTGTGTGAATAGCCCTGCTTATCCACTGCAACTGGGTCTGC	6566	Db	7587	CAAGATACTACAGGCTGGCCACAGCTGGGCAAGCTCTCCGTGGAGTGGAGTGCAGTCC	7646
QY	1864	-----	1863	QY	2234	CTGGAGCAGGCACTGTGGAGGAGCCATCCCTCTGTGATGACTGGCAGCTTAAGGAGACCT	2293
Db	6567	CAGGGTGCCAGCCTCAGAGCTCACCATTCAACAGAGACCCTTCCAGCCCTCTTCTCTC	6626	Db	7647	CTGGAGCAGGCACTGTGGAGGAGCCATCCCTCTGTGATGACTGGGAGCTTAAGGAGACCT	7706
QY	1864	-----	1863	QY	2294	CGGAGTGGACCCGAGCCAGGAATAACGAATGACCAAGCCCAAGGAAGGAGGACAGAGA	2353
Db	6627	TAAGCCTTCTCTCTGGCCTCTGCCCTCTGTCTCTGCTGTGCTGCCCTGGGCTCTG	6686	Db	7707	CGGAGTGGACCCGAGCCAGGAATAACGAATGACCAAGCCCAAGGAAGGAGGACAGAGA	7766
QY	1864	-----	1863	QY	2354	GGCCCCAGAGTGGGTGGAGAGTGCCTGGGACGCTTGTGTGCAATAGAGAGTCT	2413
Db	6687	GGTGTGCTGAGGGAAGTACACATGATGCCACATAACCAAGGATCTTACAGTCCCTGATC	6746	Db	7767	GGCCCCAGGAGTGGGTGGAGAGTGCCTGGGACGCTTGTGTGCAATAGAGAGTCT	7826
QY	1864	-----	1863	QY	2414	CCACACCAGA-----	2423
Db	6747	CTTGGTTACAGAGGAGCTTGGCCTCCCTGCTGCTGCACAGGCGACAGGGTTTCTCCC	6806	Db	7827	CCACACCAGATGCTTCCAGATTCTGTGCTCTGGCTTTGTTGTCCAGCCAGGCTTGCAG	7886
QY	1864	-----GAGAAATGATGGCCAGAGCCGCGGA	1889	QY	2424	-----	2423
Db	6807	TCAGCAAGAGCTTATGCCCGGTTGTCCGACAGAAATGATGGCCAGAGCCGCGGA	6866	Db	7887	TTTATTTTCACAGTGGACAGAGAGAGAGAGGCTGCATGTGTACCGTGTGTGGCA	7946
QY	1890	TGCTGCACACTGCCGAAGCCACAAACCTT-----	1918	QY	2424	-----	2423
Db	6867	TGCTGCACCACTGCCGAAGCCACAAACCTTGGTGAGAGGCGGGTCCCTGGGGTGGAGG	6926	Db	7947	AGGCGAGGGCCTTGCCCTGGGCGAGGGCCCCCTGCTTCTTTTCCACAGCTTCTTCCAA	8006
QY	1919	-----	1918	QY	2424	-----	2423
Db	6927	TCCCCACCCCTACATCTCTGTGAGGCTCCAGGGTGGCCCTGACTCTCATGACCCCTCCC	6986	Db	8007	CAGCAGGCAAGTGGGCTGCGGGCTGTGCGGTGGTGCCTGTGAGGAGCTTTATTTACTCT	8066
QY	1919	-----GTGCTCTCTCACCACTCAGAAGCCGAGTTTCCCACTCCACAGGACAGCC	1969	QY	2424	-----	2423
Db	6987	ACCCCGCAGTGCCTCTCTCACCACTCAGAAGCCGAGTTTCCCACTCCACAGGACAGC	7046	Db	8067	CAACATAGTAGTATGTTCCAGGCCAGCCAGAGTGGGCTGGCAGGGAGGCTTGGGCCCC	8126
QY	1970	CAGGTGGGAGGATTTCACAT-----	1991	QY	2424	-----	2423
Db	7047	CAGGTGGGAGGATTTCACATGTTAAGTGTGGCGATGGTGGGTGGGCGAGGGGT	7106	Db	8127	GCCCTCTGGGAAGGAGCTGTGGAGGAAGACGCCCATGCTGTGGCACGGCCAGACTGG	8186
QY	1992	-----	1991	QY	2424	-----	2423
Db	7107	GCTTATGTTAGTTACCATGGCTGGCAGATCTCTAGGCATCTGCCATGTGCCAGGCGGCTG	7166	Db	8187	GTCCAAGATCTGATGCCACCCAGCATGTGCCCTCCAGGGCTTGGCCAAAGGCGGGCTGG	8246

QY	2424	-----	2423
Db	8247	AGCCTGGAGCCCTGTTCAGCAGCCAGCCAGGGTGACCATCAGCTCCCGTGGTGGTCCAA	8306
QY	2424	-----	2423
Db	8307	TAGGACTTTACAGTCCAGATGCAAACTGACAGCTTCTTCCCAACTGCAATCCCCGCTTTTC	8366
QY	2424	-----	2423
Db	8367	CACACTTGAGCTCGTCCCTGCTGTTGGCCAGGCTTCTGGGGTCTTCTGGGGTGGCTT	8426
QY	2424	-----	2423
Db	8427	GTGATAGAAACAATGCTGAAGCTTCCGCGAGAGCCGCTGCTTGTGTTGAGGCCAACAGA	8486
QY	2424	-----	2423
Db	8487	CTTCCAGGAATCAGGGTTTATCATCAGTGTGAGAAATGTTCCAGCAAGCTCTGGTTCAT	8546
QY	2424	-----	2423
Db	8547	ACGAAGTCTCTCTTCCCTGCCCTTCAGCACATTCCCTTAGGAACCACTACTGCCAGGA	8606
QY	2424	-----	2423
Db	8607	CGCCTCTTGCAGGACAGAGCTCACCCAGGAAGCTCCAGGACTCCACCCCTCTTGCCCTGC	8666
QY	2424	-----	2423
Db	8667	TATTGCCCTGAGTCTGGCAGCAGGAGGCATTTGTGTGCCAGAGAGAACTCATGGCC	8726
QY	2424	-----	2423
Db	8727	CCTGGCATGACTCCTGAGTAGGTATTGAGGCTGCAGGGCCTTGGGCTCCAGAGGCAGCT	8786
QY	2424	-----	2423
Db	8787	GGTATGGCCCTCTGCACCTTTCAGCCCCATGGATGTGGATACACAGGCTGCTGTTCAG	8846
QY	2424	-----	2423
Db	8847	AAAGGTCAGAGCCTTTAGCAGGGAGGCACACAGCTGGGCTTAGACCTCAGTCACTAA	8906
QY	2424	-----	2423
Db	8907	GTGAATCTGAGCAAGTCAGTGAACAGTTCTTCCCTTCATTCTCCACCTGTAAAGCCAGG	8966
QY	2424	-----	2423
Db	8967	TATGATAAGCCCATACAGCCTTAGTGACAAAACATAAACTGTAGCTCCTGCCCTCTG	9026
QY	2424	-----	2423
Db	9027	TAGCAGAGGTACAGCCAGGGCAGTCTGTGTATCCAGGCTTGGTAGGGGGCAGCCT	9086
QY	2424	-----	2423
Db	9087	CGCCTCAGTTGAGGGCTGAGGAGAGACTGAGGTGCAGCAGATGGCAGTGGTAACCAAC	9146
QY	2424	-----	2423
Db	9147	CAGTTCCCTTGGCGTGGGGACACAGGAGAAGCACGGAAGCATCTGGAACGTAGCAA	9206
QY	2424	-----	2423
Db	9207	TCAGGACAGGAGCTCAAGCCTGGGTGAGTCAAGAGTCCGGGGCTTCTTTTTCATCCAA	9266
QY	2424	-----	2423
Db	9267	CCCATTTGCTGTGGTGTCTCGGCAAAAGCCAGCCAGCCGCTGCGCCCTTCACCGTTC	9326
QY	2424	-----	2423

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Db	9327	TTCAGACTCTAGGCTGAGCCAGCCAGCCAGCACACAGAAACCAAGTGCCACGGGGCC	9386
QY	2424	-----	2423
Db	9387	GGTGTCTCCACCAGCATTTCTCCTCTGGTTCACATCTACGTCTGTATGGGACTTCTCCCT	9446
QY	2424	-----	2423
Db	9447	CCTCCTTGGACCATCAGCTTTACAGTCCAGACCACCTGACACCACCCGGTGGTCTCCCA	9506
QY	2424	-----	2423
Db	9507	GCTGCCCAGTCTCGGCAGGATGGCTTTTGAGCCTGTGTGGAGAGACCTTGCAGGAGA	9566
QY	2424	-----	2423
Db	9567	ATGTTGCCAGGGCAGCAAGAGACACAGACTCTGGGAGCTAGAGAGTTGCGGCCAG	9626
QY	2424	-----	2423
Db	9627	GGGCCAGCCACTCCACAGGACAGGAGGCCAAAAGCGGGGAAGGCTCCATGTTACG	9686
QY	2424	-----	2423
Db	9687	GTGGCCCATGCTGGGAGTTTGTGCTGCTTCTCCTGACTGCCAAGCGTGGGT	9746
QY	2424	-----	2423
Db	9747	GGTGTGGGCGAGGAGCATCTCTGTGTTTCCCTAGCAGCCAGGCTGTGTGACGGGCT	9806
QY	2424	-----	2423
Db	9807	CCCATTTTGTCTCAGCTGCAAGAAGGCCACAAAGGAGGAGGGGCTCATGGGACTGCT	9866
QY	2424	-----	2423
Db	9867	GAGAAGAAGTGTGCAGAAAGGAGTGTGGCCCTAGATCAGTCTTTTAAAAAGCCTCTGT	9926
QY	2424	-----	2423
Db	9927	TACCTGAAAGGAGTCAAGCAGAGAGGAATGGGTGCTGTGTCTTACCAGGCGAGACA	9986
QY	2424	-----	2423
Db	9987	GGACAGAGGAGGTCAATTGTTACACACACATCCCCCTCTCTTCCCTTCCCTCCACT	10046
QY	2424	-----	2423
Db	10047	TCCTGTGAAGCCTGAGGAGGCTGTGGCAGGCTGAGCCCTGAGCTGTGGGTACACA	10106
QY	2424	-----	2423
Db	10107	CCAGGAGGCCACGGCTCCCCACAGAGGGGTGGAGTGTCTAGTGGAGCCAGCACCTC	10166
QY	2424	-----	2423
Db	10167	TGCTGCTTCAGCATCTCCGCTTGAGCCAGCTGTCCCTCTCTCTCAGGCTCCATCCGAA	10226
QY	2424	-----	2423
Db	10227	CAAAAGGAGGACAGCCTGAGATCCGGCACCCCTCCCTCCCTCCACTCAGCACTGAGTTA	10286
QY	2424	-----	2423
Db	10287	GAGCTGGTGGGGGATGTCTGCCCTTTCACAGCTGCTTATGGCTTCTGTCTCTCAACA	10346
QY	2424	-----	2423
Db	10347	GCCTCAGCCTCTGGCTGCTCTCTTCCCAATAGTCACAAGATTTACCATGATAATAA	10406
QY	2424	-----	2423



Db	10407	GGTTAAGACTTGAATGGTGTGTTTCATCTTTCTTCACTCTTCACTCTTCACTCTCTCACTTACGTT	10466
Qy	2424	-----	2423
Db	10467	ATTTTTATCCTGATGACAGAAAGGTACTACAGGTATTTTACTCTGGTTTTACAGTCAA	10526
Qy	2424	-----	2423
Db	10527	AGAACTGAGGCACAGCAGGTTTGCCCAAGGTACATAACTGCTTAATAGCAGGTAGA	10586
Qy	2424	-----	2423
Db	10587	CAGTGAAGTAACTGGATGTATACGCCATGCCCTTCCCATGCCCCGGCACTCCCC	10646
Qy	2424	-----	2423
Db	10647	ATGACAGCTCTCTGAATCCCAACATTTTATCTTTTCAGGATTAGACCCAGCATATAA	10706
Qy	2424	-----	2423
Db	10707	ATTCCTTTTCCCTCTCTCCATTCCCACATTTCTTTATTTTACGTACTTACTATAGGCC	10766
Qy	2424	-----	2423
Db	10767	TTGTAGGGCTCTGTGAACAAGACAAAGGCCAGGTGCTGTGGCTGATGCGTGAATCCCA	10826
Qy	2424	-----	2423
Db	10827	ATGCTTTGGAGGCTAGGCATTTGAGACAACTGGGTAAACAAGCAAGCCGGTCTCT	10886
Qy	2424	-----	2423
Db	10887	ATAAAAAATAAAATTAACCGGGTATGGTGGTGTGCACCTGTAGTCTAGCTACTTGGGA	10946
Qy	2424	-----	2423
Db	10947	GGTTGAAGTGGGGGGATCACTTGAGCCCCAGAGTTTCAGAGTTTACAGTGAGCTATAACTGC	11006
Qy	2424	-----	2423
Db	11007	ACTCGTCTTCTTTGGTTGACAGAGAAAGACTCTGTCTCTAAAAAAGAAAAACCAAGA	11066
Qy	2424	-----	2423
Db	11067	CTGTAAGTTCTTGCCCTCATGGGTCAATCATCCAGCTAGGCAGCCAAGACTATCAGTAA	11126
Qy	2424	-----	2423
Db	11127	CAAAAGATGCGAGGGATAAAGTCCAGAGCAGCAGAAATCCAGGGCTGCAGCATCTCAGT	11186
Qy	2424	-----	2423
Db	11187	GCTTACCCCAAGCATTAAGGCCCAGAGCTGCTCCCGTTGGAGCATAGGTTTCATAGCCCCA	11246
Qy	2424	-----	2423
Db	11247	GCTCCCTGAGCCCTGCACAGCTCTGTCCCTGAGATGGGATGCTCTCCACTCATCACT	11306
Qy	2424	-----	2423
Db	11307	GGCACAAGCCACTGTAGTAGCAGGCAGGTATGGTGGCTGGTGGCTGCAGCAATTTCTGAC	11366
Qy	2424	-----	2423
Db	11367	CTGCAGTTGTCTCAACCCCTTTCTCCCTTCCACAGACCTACAGGCCAGAAAGTACATG	11426
Qy	2424	-----	2423
Db	11427	TCCTTCCAAAATGTGCTCTAGTACCCCAACCCACACTCAGTATTGAGCTCCTCCTACATC	11486
Qy	2424	-----	2423
Db	11487	TGCCAGGCCATGGATCTATATAAGTAAGTGTCCACCCAGGCCGTGCCAGTTGCTGCAGC	11546

Qy	2424	-----	2423
Db	12627	CTGTTATGTAGATACATAAGTTGGGAAGATTCTAAATGGCCCCAATTTGTAGATTCTAATTA	12686
Qy	2424	-----	2423
Db	12687	TATTTCTAATGGTCACCTTTTAAAGAATAGAAAAAGAGAGCCTCGAGGCAATGGCATT	12746
Qy	2424	-----	2423
Db	12747	GGGGAATTTAATGGCATGATCAGTGGCAAGGTCCAGAGATGATTACTTAGGGTGGGAGA	12806
Qy	2424	-----	2423
Db	12807	ATGTTACAGGGTCCCTGGGACACAGGSCATCCAGGTGGGAATCAGAGGGAGAGGTAGGT	12866
Qy	2424	-----	2423
Db	12867	GGCCAGTTTCACCCCTCTCAGCGTTGCTGGGGCTGAGCCCTGCAGGAGCAACCTGTGTGCT	12926
Qy	2424	-----	2423
Db	12927	GGAGGAGAGCCTGCACATGCAGCTGGACTCTGGTGGCCCCAGGAGAGGTGAGCAATC	12986
Qy	2424	-----	2423
Db	12987	TCTGTTTCTCTTCTCGGTTCTTGACTTTGCACAGCAGCTGTGGATTATCTCATCAA	13046
Qy	2424	-----	2423
Db	13047	TAGACACAAGGTCAGGAGGCTGAGCCATGGAGTTGCTGCTCTTAGCTTAGCCCCATTG	13106
Qy	2424	-----	2423
Db	13107	CAACTTTTAGCTTCCCCAGACAAAGCACTGTTCCTAAGCTGCAGGTCACAGCCCCAG	13166
Qy	2424	-----	2423
Db	13167	AAAACAGGTGTTTCCCTTTTGGCACCAACCAAGGTGAGTAGACAGTCCGACTCATCAA	13226
Qy	2424	-----	2423
Db	13227	GGCCATCCCAAGACTTGAATAACGAGGGTGCACGTTTTTTAAATGAAATATTATCT	13286
Qy	2424	-----	2423
Db	13287	TTGGAATTATAAAATAAATATTACATTATAGAGACTGTAGATTAGAGAGCTGCCACCTT	13346
Qy	2424	-----	2423
Db	13347	CTCATTATTGTCATTTTCAGAACTTTTTTTTTTTTTTTTGTAGACGGAGTCTTGTCTGT	13406
Qy	2424	-----	2423
Db	13407	CGCCAGGGGAGTGCAGTGGCGCATCTCAGCTCACTGAAAGTCCACCTCCCGGGTT	13466
Qy	2424	-----	2423
Db	13467	CATGCCATTCTCCTGCTCAGTCTCCTGAGTAGCTGGTCTACAGGCGCTGCCACCAG	13526
Qy	2424	-----	2423
Db	13527	CCCAGTAGTTTTTGTATTTTATGATGGAGTTTCACCATGTTAGCCAGGATGGTCT	13586
Qy	2424	-----	2423
Db	13587	CAATCTCGACCTCGATCTGCTGCTGCTTGGCCCTCCCAAGTGTGGGATFACAGGCA	13646
Qy	2424	-----	2423
Db	13647	TGAGCCACTGCGGCCAGCCAGACACTTTTCTTTGTATTTTTTTTATTTTATTTCTTG	13706
Qy	2424	-----	2423

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Db	13707	GAGACGGAGTCTCTTCTGTTGGCCAGGCTGGAGTGTGGTGAGATCTTGGCTTACTG	13766
Qy	2424	-----	2423
Db	13767	CAATCTCACCTCCCTGGTTCCAGCGATTCTCTGTCTTAGCCTCCCAAGTAGCTGGAT	13826
Qy	2424	-----	2423
Db	13827	TACAGATGTGCATCACCACGCCCAGCTACTTTTTTGTATTTTATAGTAGAGATGGGTTTCA	13886
Qy	2424	-----	2423
Db	13887	CCATGTTGGCCAGGCGGCTTGAACTCCTGACTCAGGTGATCTGCTGCCCTCGGCTC	13946
Qy	2424	-----	2423
Db	13947	CCAAAGTGTCTGGGATTACAGGCGTAAGCCACCGGCCACGCCACAGAACATTGTTAACAT	14006
Qy	2424	-----	2423
Db	14007	TCATTTTTCAGGCTTTTCCCTAACCATCCTATCTATAATTAGGCCCTTCGTGGCCCTATT	14066
Qy	2424	-----	2423
Db	14067	TTTTTTTAAACAACAACATCTGCGCTTATTTATTAGSCACTGTTCTAAAACCTCTGCAAG	14126
Qy	2424	-----	2423
Db	14127	GATTAACCTTATCAATCTCTACCATAGCCCTCTAAGGTACTCTTACTTGTCTTATTAG	14186
Qy	2424	-----	2423
Db	14187	ATCTACGGGGAAATTTAGGCACAGAGGGTCAAGGAACCTTGCCAGGATTGTACAGCTG	14246
Qy	2424	-----	2423
Db	14247	GTGGTGGCAGAGCTGGGATTCAAACCCAGGCAGCTTGGCTTTAGAATCAACAGTCTGAG	14306
Qy	2424	-----	2423
Db	14307	CCTCATGTCTGCTGCCAGATCTGGCTGTAGACGCTCTTTATTATATGCTTCTTCTCTC	14366
Qy	2424	-----	2423
Db	14367	TCCAGCTGCTGAGCTGCTCACCCCTTTATCCACTTTGCTTATCACAGTGTCTGSCACACAG	14426
Qy	2424	-----	2423
Db	14427	TGSCATTCAGTGCTATTGTTCAGGTGAATGAAGGAATGAATGAGAAAGGGGAATTTCC	14486
Qy	2424	-----	2423
Db	14487	CATAACCCAACTACCTTAGACAAATAATTATGGTAATTTTGGACAGATTGTAGATTTCAA	14546
Qy	2424	-----	2423
Db	14547	TCATGGTTCAGGAACCGCTCCTGCCAGTCTGTGTGCTGTCATCATCTTTTGAGGCCAGA	14606
Qy	2424	-----	2423
Db	14607	ACAGCCAGCTGTGCCAACATACCTGGGCGAGAGCGAGCCCATGTTCTCAGGCCAGCG	14666
Qy	2424	-----	2423
Db	14667	GTCAGTGGGGTTGGCCTCGGGCCTGTCTCTCTTTGATCTCGCCCTTACTACTCCCT	14726
Qy	2424	-----	2423
Db	14727	CGCTGCTCTCTGAACCTCCTTATCGCTGTCTGCTGCTGCTGCCACATCTCCTTCTCT	14786
Qy	2424	-----	2423



Db	132990	CAAGGATCCGATGGGTATATGGAGTGTGAGGTAATGGATCATTCATGTGGAAGGATGCAG	133049
Qy	61	GGGGTTTTTTCAGACCAAGGGTTTGGGAAGAGAGTTTCAGCACATGCTGGTAGTTTTTGGGAATCA	120
Db	133050	GGGGTTTTTTCAGACCAAGGGTTTGGGAAGAGAGTTTCAGCACATGCTGGTAGTTTTTGGGAATCA	133109
Qy	121	CCCATGTGACGGCGACACATGAGCGCAGTAAAGAACTCTGCAGGGGTCCCTTGAGATTTGGA	180
Db	133110	CCCATGTGACGGCGACACATGAGCGCAGTAAAGAACTCTGCAGGGGTCCCTTGAGATTTGGA	133169
Qy	181	AATGTAGGGAAGACGAATGATTTGAGTCCGAACCTTGGAGGATCTGCTATACCCAGAGCT	240
Db	133170	AATGTAGGGAAGACGAATGATTTGAGTCCGAACCTTGGAGGATCTGCTATACCCAGAGCT	133229
Qy	241	GGGAGGAGGACAGAGTCAGTACCAGAGTCGGAAAAAGCAGGTTGGAGGGGAACCTG	300
Db	133230	GGGAGGAGGACAGAGTCAGTACCAGAGTCGGAAAAAGCAGGTTGGAGGGGAACCTG	133289
Qy	301	AGTCAGGAGACTTGCCTGGCAGCGCTGCCCTGCCAGCAGAGCGCTGCACAGTGGTTTCCA	360
Db	133290	AGTCAGGAGACTTGCCTGGCAGCGCTGCCCTGCCAGCAGAGCGCTGCACAGTGGTTTCCA	133349
Qy	361	TGAACCTGCATCCCTGCTGTGGGCTGGGACAGGGCCACTGCACAGATATCGGAGCACAGAA	420
Db	133350	TGAACCTGCATCCCTGCTGTGGGCTGGGACAGGGCCACTGCACAGATATCGGAGCACAGAG	133409
Qy	421	GGGAAAGGACGAGGAGGATTCAACTCTGCCAGTTAGCAGCTGTGTGGCTTTGGGCAT	480
Db	133410	GGGAAAGGACGAGGAGGATTCAACTCTGCCAGTTAGCAGCTGTGTGGCTTTGGGCAT	133469
Qy	481	GTACTTTAACCTCTCTGAGCCTCATTTATTTTCATCCATAAAATGGAATAAAAAATAATAC	540
Db	133470	GTACTTTAACCTCTCTGAGCCTCATTTATTTTCATCCATAAAATGGAATAAAAAATAATAC	133529
Qy	541	TTTTTGCAAAGCGCATTTGTGAATATTTAGATCCTCAGATATATGCTTGTAGCRA	600
Db	133530	TTTTTGCAAAGCGCATTTGTGAATATTTAGATCCTCAGATATATGCTTGTAGCRA	133589
Qy	601	ATGCTAGCTGGAGAAAGGAGAGAAACCAAAGTCAGCAGCTGAAGGATTTTCATATT	660
Db	133590	ATGCTAGCTGGAGAAAGGAGAGAAACCAAAGTCAGCAGCTGAAGGATTTTCATATT	133649
Qy	661	AGAACTGCTCTGCACTATCTGGCAGATGCAAGCACACACACGAGGGGCATGGAT	720
Db	133650	AGAACTGCTCTGCACTATCTGGCAGATGCAAGCACACACACGAGGGGCATGGAT	133709
Qy	721	TTCCCCCGCCCTTAGACATGTTGTGTCCTCTCTGGATCCTTGGTCCCAGGTGCCCTACC	780
Db	133710	TTCCCCCGCCCTTAGACATGTTGTGTCCTCTCTGGATCCTTGGTCCCAGGTGCCCTACC	133769
Qy	781	TGAGCTCAGTGAATGTGGCAAGCAGAGCCCTCTGGTGGTGTGAATGCTGTGTGGCGCC	840
Db	133770	TGAGCTCAGTGAATGTGGCAAGCAGAGCCCTCTGGTGGTGTGAATGCTGTGTGGCGCC	133829
Qy	841	GTGCTCCTGGTGACACAGGACCTCACAATCCCTCCCTCCACGGTCTCCTCTCATGTCTCT	900
Db	133830	GTGCTCCTGGTGACACAGGACCTCACAATCCCTCCCTCCACGGTCTCCTCTCATGTCTCT	133889
Qy	901	CCCAGCCTATTATTCTCGTTCCTCTCTCCAGGCCCGGAACCTGCCGTGTTGGTCCC	960
Db	133890	CCCAGCCTATTATTCTCGTTCCTCTCTCCAGGCCCGGAACCTGCCGTGTTGGTCCC	133949
Qy	961	CAACCAAGGACGAGCCCTTCTGGCAGCAGCTGTGCCATCCCAAGTTGGGGATAAAG- ---	1016
Db	133950	CAACCAAGGACGAGCCCTTCTGGCAGCAGCTGTGCCATCCCAAGTTGGGGATAAAGTTG	134009
Qy	1017	-----	1016
Db	134010	GTGGTCTGTCCGGCTGGGCACAGCCCGACATCTGCACCCCTGCTGCTCTGCTCTCTTG	134069
Qy	1017	-----	1016
Db	134070	TGCTGCTGTGTCACCTTTGACCTCGGTGTGCTGGCCAAAGGTGGCAGCTGTACTCCT	134129
Qy	1017	-----	1016
Db	134130	CAGGGTCTGTGTTCCAGGCTGCTGGCTAGATCTGCCTTACCTGCCTCTTTTGTGCTCA	134189
Qy	1017	-----	1016
Db	134190	GGGGCCTCCCACTGCAGCTTCAGCTCTTTTGGGATCCCTTCCAACATTTTACTGCAATA	134249
Qy	1017	-----	1016
Db	134250	GGCGCCCTTCTCTCCCTGGGGTTGGAGATCAGGGCCAGCCCTTCCCAAAAGCTCCAG	134309
Qy	1017	-----	1016
Db	134310	TTCTTGGTCTTCTTCTTTCCAGTCCCTTTAATGAACCTTTGTCTCGGGGCAAGTACAACCTCAG	134369
Qy	1017	-----	1016
Db	134370	GTGGTTGAACCCCTGCCAGCTTGCCTTGGTTGAAAAAGCCTTCCGGTGTAGAAAAAGGTTG	134429
Qy	1017	-----	1016
Db	134430	TATTTGCCCTTACCTTTTGGCCCCGAGGTAGGGTTTGGCTTTGGCCCATAGGGCGATAGTTC	134489
Qy	1017	-----	1016
Db	134490	TCTGGGTAGNAGGGCTCATTTTTTCTCACGTGTGTGAGATTTGTGTCCCTCTGAGATTATC	134549
Qy	1017	-----	1016
Db	134550	CTTCCAAGTGGAGGGGTGGCGCCTTGGGGTTTCATGCTCCTCAGGGTCTCCCCCATTTTCAT	134609
Qy	1017	-----	1016
Db	134610	GACTTATGTGCTACTCTTTTTCACAATCTTTCTGTGTGCTTTCCCTCCGTTGTGTGATTG	134669
Qy	1017	-----	1016
Db	134670	TATGGTCTTCCITTTTATTTGGTCAGTGTGGAAATTCGGTCTCTGTTTCGAACCTTGACTTCT	134729
Qy	1017	-----	1016
Db	134730	CAFTGTGTGTGTAAATGAACATATCCTCTGTAATCTGTGTGTGTCTATTTCGGGCA	134789
Qy	1017	-----	1016
Db	134790	CAACCCTTTTACGCTTCCACTTTTGTGTGTCTTGTGTGCGGTTTNNNNNNNNNNNN	134849
Qy	1017	-----	1016
Db	134850	NNNNNNCCTTTCCCTCTCAATGTCTCAGTCAGTCAGTCATAAGCCAAAATAGAAATGAAAATCA	134909
Qy	1017	-----	1016
Db	134910	NGTGGATCCCAAAATTCATAATTTCTGCCATCTGTAGAAAAGACTAAAGCAGCAGTAGTTC	134969
Qy	1017	-----	1016
Db	134970	TTAAAGATCTCAGGCAACTTCTAGAACCAATCAAGGGTCTTTAAATACCCATTACACTCC	135029
Qy	1017	-----	1016
Db	135030	CTCTAGCATGCAAAATTCATTTTAGTAAACTCTATAGTACAAGAAATTAATAATTAGAAAAAT	135089
Qy	1017	-----	1016
Db	135090	CTCAATATTAAAGAAATCTATAGTACAAAATCTATGCAAAAAGCTTTTACTTCTTCAATAA	135149
Qy	1017	-----	1016
Db	135150	AGGTCAATAACACTTAATTTAAATAACTATAGTTTACCTGACTGATTTTCTCTGAGTTCA	135209



Ds	137370	GATCTCAGCTCACTGCAACCTCTACCTCCAGGTTCAAGAGATTCCTCCTTCAGCCTC	137429
Qy	1123	-----GACCAAGGGCAGGTGCTGGTGA-----	1145
Ds	137430	CCGAGTAGATGAACATACAGGTGGTGTCCACACACCCAGCTAATTTTGTATATTAGT	137489
Qy	1146	-----	1145
Ds	137490	TGAGATGGGTTTCACTATATTGGCCAGGCTGCTCGAATCTTGACCTCAAGTGATCC	137549
Qy	1146	-----	1145
Ds	137550	ACCTGCCTCAGCTCCCAAGTCTAGGCTTACAGACGTGAGCCACACCCAGCAGG	137609
Qy	1146	-----	1145
Ds	137610	TAGCAACTTCAGCTGGGAAAAAACAACACTGCCATCTCAGTCAACTCTATTATTGTTGGACA	137669
Qy	1146	-----	1145
Ds	137670	GAATTGTAGTGAGTCTTTCCCTTTGGTCTTTTCCACATCCTCATAAACTAATACCTGCC	137729
Qy	1146	-----	1145
Ds	137730	CAGTGAGCAATACCTCATCACAGATAATTCAAAGATGTTTAGCACTCACAAAAAGGCTGG	137789
Qy	1146	-----	1145
Ds	137790	TACAAAGTGPAGAAAAGACATAACTGAACATGCGCATAACTTTTGAGAAATCAATCAAT	137849
Qy	1146	-----AGTGAATTCGAGGTGATGCCATTTGGCTGCGCAGCAGATGCCCGT	1192
Ds	137850	GACCACAAAAGCTATGACACTCTTTGGTGTCCACTGTGSCCTTTGGCCATTGGCAGGT	137909
Qy	1193	GGTGTGCCACATC-----	1206
Ds	137910	GGTGAATTCATCCCATATATCGCAGGCTGTGGTGTGACTTTATTTAGTTAAGTGTGGT	137969
Qy	1207	-----	1206
Ds	137970	TTTGGCTCTGATTGGTACAGAAAATGCGCTTATGCCATGTATCGCAATTGGAGACTTAA	138029
Qy	1207	-----	1206
Ds	138030	CCAGGAATCACTGGTAATTGTGGCAACTTTAAGGGAGGCTTCTTAAGTTTAGACCTTCA	138089
Qy	1207	-----	1206
Ds	138090	AAGTGAATCCCTGGTGTAGTAACCTTTGGAGGGGAGTTGTGAGTGAGCCAGGTTCT	138149
Qy	1207	-----	1206
Ds	138150	CCTTTATAGGCATTAAGCGCGCTTAGTTTGGCGCCCAACCGCTTTGCCACATTTTC	138209
Qy	1207	-----	1206
Ds	138210	ATTGACAAAAAGTCCCTTTTACAGGGGGACCAGCCTTTTACATTGCTTCTGAA	138269
Qy	1207	-----	1206
Ds	138270	GGCCATTTTGTGGAATCCCTTTTAAGATTGGCGCTTTTGGAGTTAACTCGNGGCTCTTC	138329
Qy	1207	-----	1206
Ds	138330	TTTAGTATTTGGGAGTAAACTCCTGCCCCACCCTTTNNNNNNNNNNNNNNNNNNACAG	138389
Qy	1207	-----	1206
Ds	138390	TAGTTATCAATATAACCTTATACAAATAAGTAGTCAATAAATGTCAGCTATTATTG	138449
Qy	1207	-----	1206
Ds	138450	TTGAATGAATACAGGAATGTACAAAAATAAACATGGGAAAAACTTTCATAGAACTTTACTCT	138509
Qy	1207	-----	1206
Ds	138510	TTTTCTCTGTTCTGACATAAACATCACTGCCATATCAAACTTTTGTAGTTCAGAAAGTC	138569
Qy	1207	-----	1206
Ds	138570	TTTGTAAAGATTTCAAAGATGAGTAATGGCTTTTCTTCCTGAAATATCCAAATATAGAA	138629
Qy	1207	-----	1206
Ds	138630	ACAAATGATCAGTTAAAGCAGCTCATTTTAAATTAATTTCTGTACTAACAACAATACTT	138689
Qy	1207	-----	1206
Ds	138690	CTAATTATACATAAAATGACATCATTTTTTCCCTGGATACCTGTATTTTAAATGCCCAAA	138749
Qy	1207	-----	1206
Ds	138750	TGAAGAGATTTATCAAGTCAACTGAAGAAATTACAATATTTTAAATGAGAGCTTAGTAC	138809
Qy	1207	-----	1206
Ds	138810	GGAACTATTATTCTGTGAAACACTGGTCAATTTCCATACCTACTTTTCTCTACANAAA	138869
Qy	1207	-----	1206
Ds	138870	ATTAGAGTCCTTTTCTCCTCCTTTTAACTTTTTTCTTTTAAATGCTCTACTGTGTCAT	138929
Qy	1207	-----	1206
Ds	138930	TTCTTTGCACCTTCTCTAACAATGAACCTTTACAGAAATGCTAAANCCTTTGCTATATGCTGC	138989
Qy	1207	-----	1206
Ds	138990	TAATTTGCTATATACATTTCAAAGAGAAATCAACTTCCCAATCATTTGGAATAGCATATGC	139049
Qy	1207	-----	1206
Ds	139050	ATCATAAGAGTACAGTAATTTCTCACTTAACATCATCAATAGGTTCAGGAAAACTGTGAC	139109
Qy	1207	-----	1206
Ds	139110	TTTATGTAAACGGCATACTGTATATAACAAACCAATTTTACCATAGGCCAATTGACATAA	139169
Qy	1207	-----	1206
Ds	139170	ACAAGACTTATGTTCTCTATGTCTTAATCATTTTAAATTTGCAATTTCCAAAAACCT	139229
Qy	1207	-----	1206
Ds	139230	ATCAATAACATTAAGTGAGGACTTACTGTATACTAAAAAAACTTTGACTTACTCAATGT	139289
Qy	1207	-----	1206
Ds	139290	AAAAGTCATGCAGAAATTTTAAACGATCTGGTTGAATACATCTGGATCCAGATTTTCTGAA	139349
Qy	1207	-----	1206
Ds	139350	ACAACTTAGGTACAAAGATGGTTCAATTTGCTTGAATAAAAAAATAAAGACAATTTACT	139409
Qy	1207	-----	1206
Ds	139410	TGATGCAACACTTTACATATCACAAATTACACAACAATTGCTTGGGTAAAAATAGTAAAG	139469
Qy	1207	-----	1206
Ds	139470	AATAACTACTTTGGGAGGCCAGGTGGGAGGATCACTGAGGTTGGAGTTTCGAGACCAG	139529
Qy	1207	-----	1206
Ds	139530	TCGTACCAACATGGAGAAAACCCCATCTCCACTAAAAAATACAAAAAATTTAGCCGGGATGG	139589

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QY 1207 ----- 1206
Db 139590 TGGCAGATCCCTGTAAATCCAGCTACTCGGAGACTGAGCAGGAGAAATTTGCTTGAACCTG 139649
QY 1207 ----- 1206
Db 139650 GGAGGAGAGGTTGGGGTGAGCTGAGATTGCGTCATTGCACCTCCAGCCTGGGCAACAAGA 139709
QY 1207 ----- 1206
Db 139710 GCAAAACTCCGTCACAAAACAAAAGAAAGAAATACTACTATGCTATTAGCACTTATGAAT 139769
QY 1207 -----TCTGGGCTCAA 1218
Db 139770 AATAATGGAGTCACATTAAATGCAATTATGATAGAAGAAAGTACAGGAAGTACA 139829
QY 1219 TGAGGCTCTCTTTGTTGTCACCCACAGAGAGTGCATGAGCTGATCCACACA ----- 1269
Db 139830 TGATAATCACTCTATTCTAGTCACAGAAAAATCTTATGAGCAGAGAGATATACACCATC 139889
QY 1270 ----- 1269
Db 139890 CTAAGAGACAGGAAGCTTTAAAGGCTCTCAAAGAGCAATAAATATACTAGAGATTTT 139949
QY 1270 ----- 1269
Db 139950 TAAAGTAGAATTACATGAGAAACGTATTGGAAGTAATTTTATATTTGCATATTTATTA 140009
QY 1270 ----- 1269
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QY 1270 ----- 1269
Db 140070 NNNNNNNNNNNNNNGAATTAGTTTCATCATGTTTCTCTCTCGATGCCACTTTCTGT 140129
QY 1270 ----- 1269
Db 140130 TTCTCTCCAGACCTCTCTCTGTACCTCCCTCCCTAATTTTCTCTCTCTCTCTCTCTCTCT 140189
QY 1270 ----- 1269
Db 140190 TTTTTTTTTTTTTTTTGGACAGAGCTCTCCTCTGTTGCCAGGCTGGAGTGCAGTGT 140249
QY 1270 ----- 1269
Db 140250 GGGATCTTGACTCAACCTCCGCTTCCAGGTTTAAAGGATTCCTCGCTCAGCC 140309
QY 1270 ----- 1269
Db 140310 TCCCGAGTAGCTTGGACTATAGGCACACACCACATGCCAGCTAATTTTGTATCTGTA 140369
QY 1270 ----- 1269
Db 140370 CTAGAGATGGGTTTACCATTGTTGGCCAGGATGCTCGATCTCTTGACCTCGTGATCC 140429
QY 1270 ----- 1269
Db 140430 ACCCCCTTGGCTCCCAAGTGTGGGATTACCGGCTGAGCCACCAGCCTGGTCTAA 140489
QY 1270 ----- 1269
Db 140490 TTTCTTACCAAGTTCTTCTGAGGAGGAAATGGGCAGTAGATCTGATGCCAGGAAAC 140549
QY 1270 -----CCCTGACAGCTGGGGCCCACTGTGGGCTCTGCTGAGGG 1309
Db 140550 TTTGGCTTATTCGGTTCTCTCTGACCCCACTTCCAGAGTGGGATTTGGGGTGGG 140609
QY 1310 CTGGACCTGGTCAAGTGCACGA ----- 1332
Db 140610 ATGGCTCTGCTCTGATGCTGGGAAGGGGACCTTAGCCCTAGCCTGCTTCTCGTTTACCC 140669
QY 1333 -----CCTGGGAGGCCAGCTGACGGAC 1354
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Db 140670 ACATCCCTCCCTGCCCCAGCCAGCTGCTCTGATCCAGCCTGACTGACCAGGTCTGAGAG 140729
QY 1355 CACGACTGGAGCCTCT ----- 1370
Db 140730 ACAGAACTGGGCACTCTCTAAAGCAGGAACAGGGCCCTGCTTAGGACCCCTCTTTACGGCT 140789
QY 1371 ----- 1370
Db 140790 CCTGCACTGCCCCCTTACCAAGACTCTGAAACAAAAGSACAAGTGGGCACAGGGTTTGAG 140849
QY 1371 ----- 1370
Db 140850 TCCTGAACAGAGCCTGGCCCTGGGATGAGTTGGAAGATGGGAGCAGCTTAAGACAAAAGT 140909
QY 1371 ----- 1370
Db 140910 TTTGGAAAGTGGGAAAAGTTTCAAAAGAGGGAGTGTGGGAGGTAGTAGTGTGGG 140969
QY 1371 ----- 1370
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QY 1371 ----- 1370
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QY 1371 ----- 1370
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QY 1371 ----- 1370
Db 141210 AACTTGGCGGGAGCAGCTGCTCCCTCCCTTCTTAGGGACTCTCTCCAGCCTGCCCCGTC 141269
QY 1371 ----- 1370
Db 141270 TTCGCCCTGCTCTTCTGGCTTCTCTACCCCTGTCCTACCTCCAGCCAGCATCACACC 141329
QY 1371 ----- 1370
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Db 141390 CCAGAGGAATGTGCTCCAGGAGAGTGTGGGGTTCCTGCTTTTCACTCTGCAACTTCTCTG 141449
QY 1431 ATGTCACACCGCAACCTGGAGCG ----- 1456
Db 141450 CAGCTCCAGCCCTGACTGTGAGCCCAAGCTTGCCCAATTTGGCTCTTACAGGAGGCAAG 141509
QY 1457 ----- 1456
Db 141510 AGCCCATCCCTCTCTCCCTCCCATCACTGCTCAATAAGTGGGTCTATGATGAGTGTGTG 141569
QY 1457 ----- 1456
Db 141570 ACCTGTTAGTCTAGGAAGGTTTGCTTGGGGCCCATTAAGGCTCCAGCTCCCTGCCCT 141629
QY 1457 ----- 1456
Db 141630 GCCCCCACCAGGAATGTGATAACTAGTGCNNNNNNNNNNNNNNNNNNNNNTTGAAGT 141689
QY 1457 ----- 1456
Db 141690 AGTTTCATCATCTACAATAATTAGTGAGCATAAAAATACAGCAGTTTGCCTGTATTTTAAATG 141749
QY 1457 ----- 1456
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Db	141750	TAATTTCTCATTTTGGGTCGTGTTAAATAAAAAATCAAAATATATCTACTATATACACAATTTT	141809
Qy	1457	-----	1456
Db	141810	TAATATTTTCAAAACTATATTTTGATATATAATTCGGTTTCCTTTGTTAACTCTAGTTGTACAG	141869
Qy	1457	-----	1456
Db	141870	TTAAGCATTTAAAAATATCCTGAGACGGTTCAACATACAGCTAAAGGGGAATTCATGCC	141929
Qy	1457	-----	1456
Db	141930	ACTGAAGAAGTTTCGRAATTCCTATTTATACTATTTACAGGCTTTTAAAAATTCGGCATT	141989
Qy	1457	-----	1456
Db	141990	AGTCTGTAAAGTATATAACAAGAGAAACAAGCTCTAAAGTCTAAAGTTTCTGCGCATCGGATATA	142049
Qy	1457	-----	1456
Db	142050	ATTCCTACTGATTTGCCAACTTTGGGCACACACCAGAAAAGCTGGTTAAATATAGATCAAAAT	142109
Qy	1457	-----TTCATGCGCGGCTTCAATGA- 	1476
Db	142110	GTTTGTACATATGTTTAAATCAGCAGTTTCAATGACAGCAGTTCTCTTTTGGTATACA	142169
Qy	1477	-----	1476
Db	142170	TGATATGATATGAACAATGTCCAGATAAGACATTTTGCCCAAGGGGCTCTGCAAGTGA AAAC	142229
Qy	1477	-----	1476
Db	142230	TAAATTTCAATCAACATCCAGAACTACTATACATAAAGCGCTTAGAGACAAACTGGTAAAC	142289
Qy	1477	-----	1476
Db	142290	TGTGAATGCCAGACTCTAAAGCGGAAAATATTAAACAACATCTACTGAATACACA	142349
Qy	1477	-----	1476
Db	142350	CCCTGTGGCTTGAACATATGTAATACCAGGTACCTTAACACACCCCATACATACATGCACACA	142409
Qy	1477	-----	1476
Db	142410	CACACACACACACACACAGCAGCTACTTTGCCCTCTCAGATCAGCTTCATTTAAATG	142469
Qy	1477	-----	1476
Db	142470	CTCAAAAATCAGTAGATTAAATGTTTGACTGACCTGAATATACCAAAAATGGGCAGTGA	142529
Qy	1477	-----	1476
Db	142530	GCTAACCTTACAGCGCATGATTTGGCATATCCGGTAATCTCTGGTGACAGCTTGCCCACTT	142589
Qy	1477	-----	1476
Db	142590	CTAGAAAATCATTTACGGATCAGACTCCCATGTAAACCAAGACTTGGCATCCGAATCCTC	142649
Qy	1477	-----	1476
Db	142650	AGATAAGGCTCGCTCGGCTAGCTGGAAGAAGGCGATTAGCACCATCTGCTCTATACCT	142709
Qy	1477	-----	1476
Db	142710	CGAGTAAAGCAATCAATAGCTCTTCATATAATCCCTCTCTTGACACATCCAGTCCCTGT	142769
Qy	1477	-----	1476
Db	142770	TACTTTGTCAGAGATATCGAGGATAGGAGAGCATCTCAANTACATAGACGAGTGCAG	142829
Qy	1477	-----	1476
Db	142830	CACCCCGACACTGCAAGGATACCACCCAGCATATATCTGCTCAGCCCATACCTTAAG	142889





Db	145862	TTCTCTGAGCTCCACAGACACTGGCCACCAGGAGCCCCGTGGCCCTCAGGGGCCAACTC	145921	Qy	2247	-----	2246
Qy	2045	CAGC-----	2048	Db	146952	TAATGTATTATTTAGAATGATGCTACCACTTTATTTTGTCTGTTTTCATT	147011
Db	145922			Qy	2247	-----	2246
Qy	2049	-----	2048	Db	147012	TTTTTGGCCTTCCTGTGTGTACTGTAATATATTTAGAAATTCACCTTTGATTGGTCTAT	147071
Db	145982	ATAAAGGCCCATTTAGTCAGGGAGTGGCGAGGAGGAGGCCACCTTAGGCCCTCTGCGC	146041	Qy	2247	-----	2246
Qy	2049	-----	2048	Db	147072	ATAGTTCTGAAAAAGATATATGCTTAATTCTTTGGGTGCTAGGTATTTACATTATATGT	147131
Db	146042	CTCTGCGACGGCCTGGCCACAGGCACACATGCGAAGGGCCCCGTGAACACCTATCA	146101	Qy	2247	-----	2246
Qy	2049	-----	2048	Db	147132	ACATTACTTATTCAGTCTACTGTTGTTATTTACCAGTTCAAGTGAAGTATAGAAACCTT	147191
Db	146102	GAGACCAAGGTGTGTCTGTGGAGGAGAGCTTCCCACGCCACAGAGCCCCCTCAGGGT	146161	Qy	2247	-----	2246
Qy	2049	-----	2048	Db	147192	ACCTTCCCTTTTGTCTGTGCATCCTCCTCTACTAGTTGTCTTAAATATTTTCTGTACATA	147251
Db	146162	CAGGGCGAAGGAGGGCCTGCAGTCCAGGAGGACAGAGAAAGAACTGGGGCCAGG	146221	Qy	2247	-----	2246
Qy	2049	-----	2063	Db	147252	CATTTAGAACCCACATAGGACAATGCCGTGATTTTGTCTCAACCTTCAAAACATAATTTAG	147311
Db	146222	CAGACACCTTTCATCTGAGGAGATGCATTTCCACAGCCATTTCTCAACCTCGACACAAG	146281	Qy	2247	-----	2246
Qy	2064	ACACCCAGGGAACTCTCCCGCTCTCCGAGAGCTGGAGCCATGAGAGGGGCTGGGA	2123	Db	147312	AAAACTCAAGAGAAAAAGAAACCTGTTGTTATTTGTTTCATAGTTTTTGTCTTACTGTGT	147371
Db	146282	AGAAGGAGGTGAGTGAGCCAGGTATCCCTGGGGTGCAGC-----	146323	Qy	2247	-----	2246
Qy	2124	CTGGAGCTGGAGCAGGCACTTGACGGCGGAAGCCAGGGTGTGCGGGCCCAAGATACTC	2183	Db	147372	CTTCTCTCCTTAATGTTTCAAGTCCCTCTTTTATTTATTTTGTCTTCTTTTGTAGAACTTC	147431
Db	146324	-----	146351	Qy	2247	-----	2246
Qy	2184	ACAGGCTGGCCACAGCTGGSCAAGGCTCTCCGTGGAGTGACTCGAGTCCCTCGAGCAGG	2243	Db	147432	CTTTACCCATTTTTTTGGGTGAAGAACTACTTTNNNNNNNNNNNNNNNNNNNNNNNNNNNN	147491
Db	146352	CCCGCCCTCACCAGTGGTTTCACAGTTAAGCAGCAGCAGTAAGTATCACATTAAGAAG	146411	Qy	2247	-----	2246
Qy	2244	CAG-----	2246	Db	147492	TNTGTCCATCCTCTAGGTATAGGAAGTGAAGTGCATGTACCTAAGATTGATCATCC	147551
Db	146412	GAGAACACGGTCTTGAACACAGGCCCCCGACACTTTGTCTATTTTCAAGGCCAGGAGGGA	146471	Qy	2247	-----	2246
Qy	2247	-----	2246	Db	147552	AAAGCAACGCACATCAACCGCAGCTGCCATAGCCAGTAGCCAGTAAGCCACAACTTGAGAGCGG	147611
Db	146472	AAGAAAAAATTAGAGCAGATCGACACCAGGGTTTCAAGTAAATACTTTGTTTCAAA	146531	Qy	2247	-----	2246
Qy	2247	-----	2246	Db	147612	CTGCAGATTGTAGCTCACCTGAATGACCAGCATGCCATTTTCAGCCTAACCTCCGGTGATC	147671
Db	146532	TGAAGTCCCAACCCCTTTTGGAACTCTCAGGCTGCTCCCGGTGGRAATTTATATGG	146591	Qy	2247	-----	2246
Qy	2247	-----	2246	Db	147672	CAAACTACTCCAACGATAAATACTATATGAATTCGTGCTGTTGATGTAGTTTCATGCAT	147731
Db	146592	CAGAGTTGAAGNTTAAAAATCTTAGGAAAAATTTAGCGGCGGGGAGATTGGGCAG	146651	Qy	2247	-----	2246
Qy	2247	-----	2246	Db	147732	ATCAGCCCATCTACTTCGGCTCCAATAGCAAAAGTTATCCCTGTATACCAATTGGGAATGA	147791
Db	146652	AAAAGCTTGGACATTTGAGGGGTGTTGTTTAGTAAATATAAANNNNNNNNNNNNNNNN	146711	Qy	2247	-----	2246
Qy	2247	-----	2246	Db	147792	TATGACTAAAGCCTCTAGGACATTCGAATTCAAACTTTGGGGTACTGATGACTCCATCT	147851
Db	146712	NNNNNTTGGTAATTTCTTGTCTCGAGTCTACTTTATCTGATATTAATGTAGCCATCC	146771	Qy	2247	-----	2246
Qy	2247	-----	2246	Db	147852	CTAAATTTCAAACTGACCATAGCAACTCCCAAGCTTAAAGTCTCATACCCAGGAATGATA	147911
Db	146772	TTGCTTTTCCCTTGATTAAATGTTGCATGATGCTCTTTTCCATTTCTTCACTTTTCAGTC	146831	Qy	2247	-----	2246
Qy	2247	-----	2246	Db	147912	TCATTTGGACATATTCATAGACAAATATTTAGCAFTGCCGTAATTTACAATCCTTTTCA	147971
Db	146832	CTTTTATATAATATTTGAAGCAAGTTGTTATAGACAGCATAPAGTTGGGTCAATGTT	146891	Qy	2247	-----	2246
Qy	2247	-----	2246	Db	147972	ATATGTACCCAGCATCACTACTCACACTGGAGGTATCGAGTTTCACATTTCCCGACCAAT	148031
Db	146892	TTGCAACCAACATGCCATCTCTGCTTTTAAATTTGTTTGTAGACCATTTACATTAACA	146951				

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QY 2247 ----- 2246
Db 148032 CAGTGTGTAGAGGGTACTTTAATCATTTAGGCTTTCTCTGGACCTCAGCGAATCCTA 148091
QY 2247 ----- 2246
Db 148092 TATACATAATCTAACGAGGTGATCCTTTGGCTCGTGAATTCGCCAGTTTTGAATTTAC 148151
QY 2247 ----- 2246
Db 148152 GGTTCATCGGGAAATCAGGATATTCACCTTCCCTNNNNNNNNNNNNNNNNNNNGGCC 148211
QY 2247 -----TGTCGAGCAGCATCCCTGTGATGACTGGCA 2279
Db 148212 GCCAAACGACTGGGATGGTAGTTCATCATCGTGGCTCCACCGTGTATCCAGGT 148271
QY 2280 GCTAGGAGGACCTCGGAGTGACCCGAGCAGGAATACGAATGACCCAGCCCAAGGA 2339
Db 148272 GCTCGGAGG-----CTGAGCGAGAGAACTCACTTGAACCTAGG----- 148310
QY 2340 AGGGAGACAGAGAGCCCGAGGTGGGTGGAGAGTGGAGTGCCTGG----- 2389
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QY 2390 -----ACGTTGTGTGCAATAGAGAGTCTCCACACAGAAAAA 2434
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RESULT 10
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DEFINITION Homo sapiens, *** SEQUENCING IN PROGRESS ***, 69 unordered pieces.
ACCESSION AC004241
VERSION GI:2920325
KEYWORDS HTG; HTGS_PHASE1.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;
Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 116389)
Muzny,D., Aronson,A.D., Brundage,E., Carvelli,K., Chen,E., Di,W.,
Ding,Y., Dugan,S., Durbin,J., Forcum,J., Ganesha,R., Garcia,C.,
Goodman,M., Gorrell,J.H., Haywood,M., Jackson,L., Kampal,R.,
Karpathy,S., Leal,B., Liu,W., Logan,O., Lu,J., Ly,T., Martinez,C.,
Oswal,G., Perez,L., Rashid,N.D., Rowland,K., Savage,L.,
Scherer,S.S., Shen,H., Timms,K.M., Todd,J., Vo.O., Worley,K.C.,
Yu,W., Chinault,C., Nelson,D. and Gibbs,R.A.
Direct Submission
Unpublished
2 (bases 1 to 116389)
Worley,K.C.
Direct Submission
Submitted (28-FEB-1998) Molecular and Human Genetics, Baylor
College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
[WARNING] On Mar 7, 1998 this sequence was replaced by a newer
version q1:2943840.
* NOTE: This is a 'working draft' sequence. It currently
* consists of 69 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence.
* as soon as it is available and the accession number will
* be preserved.
* 1 4643: contig of 4643 bp in length
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* 4664 9082: contig of 4419 bp in length
* 9083 9102: gap of unknown length
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* 114975	114994: gap of unknown length			
* 114995	115705: contig of 711 bp in length			
* 115706	115725: gap of unknown length			
* 115726	116389: contig of 664 bp in length.			
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Query Match				
Best Local Similarity 23.7%; Score 577.397; DB 7; Length 116389;				
Matches 1440; Conservative 0; Mismatches 823; Indels 62364; Gaps 37;				
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Db				
QY 79	-----			78

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Db	115118	GATGGTTGGTGAGTTCTTATCCATCTCGCAGTCTTTATCTTTGAAGTGGGACATTTAGG	115059	Db	114038	TCACGSCATGTCTCTATGTGTTCTAAATGTATGTACAGGAAATATTTAAGACAACTAGT	113979
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Db	110138	AGACAGAGTTGGGCGCGCCCTTGGGGGGGGTTTCCGGTGTCCCCCGGAAAAACGGGT	110079	Db	109058	CAGCCTCTGAGTAGCTGGGACTACAGGGCGCCGCATCACTCGGGGCTAATTTTTTTGT	108999
QY	81	TTGAAGAGAGTTTCAGCACTGCTGGTAGTTTTTGGGAATCACCCATGTGCAGGCGACACAT	140	QY	207	-----	206
Db	110078	TGTAAGGAATCCCCCAGGCTGGAAGTTTGTAGTGGTGGNTCGACCCCGCCCATCG	110019	Db	108998	ATTTTGTAGTAGAGAGGGGTTTACCCGTTAGCCAGGATGCTCTCGATCTCCTCGACCTC	108939
QY	141	GAGGCAGTAAAGAACTCTGCAGGGTCCCTCAGATTTGGAATGTGAAATGTAGGAAAGACAATGG	200	QY	207	-----	206
Db	110018	AAGGCCCTTGGAGATTTTGGCTTGTCTCAGACAGCAACGGTAGATCGGTGAATGG	109959	Db	108938	ATGATCCGCTCGCTCGGCCCTCCCAAAGTGTGTGGGATTACAGCGGTGAACCAACGCT	108879
QY	201	ATTGAG-----	206	QY	207	-----	206
Db	109958	AAAAAGCATCTACCCCCCGTAAGCATCTCACTGACTTGTTCGGCTGATATTCATTCATTT	109899	Db	108878	GGCCCATGATCTTATTTTAAACATGCTAGTATTTTAAATTTTGTAAATATAAATAATTTAA	108819
QY	207	-----	206	QY	207	-----	206
Db	109898	GAGTTCCCAACAAAAGCGTTGTACTAGTTTTTGTTTTGAATGAGTTGTGCATATATGTC	109839	Db	108818	CTGTCCCATCAAGTGTGATTTTCAATCAGTGTCTGCTGTTTTTTCATTTTACAGTAGTGATG	108759
QY	207	-----	206	QY	207	-----	206
Db	109838	AAACATGGACACTGCGCTGAAAGAGCTTAAACCTAATTTAGTTGTGTAGGCTACGAGTCA	109779	Db	108758	TAAAGTTTCTTTTAAAAATAAAATGATTTAGGGTTGAAAAACAGTTTAGTTGAAATAAAA	108699
QY	207	-----	206	QY	207	-----	206
Db	109778	GAAGACCTATCTGCATCTGCAACTGTCCCTTCTTAGTGAGGTATTTTTCACCTGTCTAAA	109719	Db	108698	ATATTAAGTANATAAAAAATACACTTGTTTACACAGATAGGGGTAACATTTTAAAGTAGTA	108639
				QY	207	-----	206

Db	108638	CAGAATGAATTAANGTTAATCTGCAAGATANTATCATTGAGAATGCAGGGCAATTTATA	108579	Db	107558	AAAGTTATAAATTAATTTGATTGTAATAATTAATTTGATATTATGATGAACATTATGCTCN	107499
QY	207	-----	206	QY	207	-----	206
Db	108578	CTGCTANAGCGAAATATCTGAGACCAATTTGTGGATGCATATAATATGAGTCTCAGAT	108519	Db	107498	NNNNNNNNNNNNNAACAGGGAGGACATTTCTACTGGGTTTAAAAATTTGGGAAATC	107439
QY	207	-----	206	QY	207	-----	206
Db	108518	GGCTTTAATAGTGAATAGATTTTATACCTAGAAATGTTTAAATGAATAGTTTTCGCAA	108459	Db	107438	CAAAATTTAAATTTGGGAACCGAAAAATTTTACCANAATTTAAATTTTAAAGCCCTTGAAAA	107379
QY	207	-----	206	QY	207	-----	206
Db	108458	TAAGTTCCCTTTAAATTTACATTTGCGTGGTTTTATAAATGGTTAAATGGGGAATCTN	108399	Db	107378	CTCAGGAATTTANCCCTAAAAATAGGGAATTTATCAATTTTAAATATCGATACATGCCATAT	107319
QY	207	-----	206	QY	207	-----	206
Db	108398	NNNNNNNNNNNNNNAATCCCGTTGATTACAGAAATAGTAGGATTTGCTGT	108339	Db	107318	AGTGCATATCATATAATTCAGAGAATAGGTAAAAATAGCCTTATAAAGCACCCCTCTCAAC	107259
QY	207	-----	206	QY	207	-----	206
Db	108338	GCACCTTTCTTGAATGGCACTTCAAAGCCAGACCTGTTCACCTCAAGGAGAAATCTTGGG	108279	Db	107258	TTAAGAACCCAGAACATTTACCATTATTTTGAAGTTTACCTTGATGCTCCTTTCTGTATPCCT	107199
QY	207	-----	206	QY	207	-----	206
Db	108278	ATTGAGAACAGTGAAGAAATTTATCTGGTTGCCCTTTAAAGATTTCTTAAATTTTATG	108219	Db	107198	GTCCCTTGCTCCCTCCAGTTAACCACTATCTTTGAATTTATATATTTGTCTATCCTTTTGA	107139
QY	207	-----	206	QY	207	-----	206
Db	108218	TGACACTTCAGCAATTTAAACTTCATGCTGTGCGAAATACCAACGTGAGAGTCAAGAGAAA	108159	Db	107138	TTTTAAAAAGGTTTATATATATATATATGTTTCTTAAATAATATATAGTATAAATCTGTCT	107079
QY	207	-----	206	QY	207	-----	206
Db	108158	AGAAGATAAAGAGTGCAGGCACCTCAGGCAGTTGCACATGGGTAAACTAAATATTTGGGCC	108099	Db	107078	TATTTTGTAGCTTAAAGTATATCATACTCTGTGTAGTTTCTGTGCTCACCTATTAT	107019
QY	207	-----	206	QY	207	-----	206
Db	108098	TCACTAGAATCTTTCTATTGGTTTACTATCTCTTCAGAGAATAGTGTAAATGAGGAAGAT	108039	Db	107018	TATATTTTATGATTATCTTCTTTTGTAGCTTATAGTCTTAGAGCTCTCATTTGTAACCT	106959
QY	207	-----	206	QY	207	-----	206
Db	108038	ATGCCGTGAGTCTGGGGTCTATTTTAACTTACCCTTATAGCTTGTGCTTTATTGACATTTTC	107979	Db	106958	GTTATATAGATAAATTTCTTTTATAGAAATATACCATATATGTCTTATCTTGTGTTGCTG	106899
QY	207	-----	206	QY	207	-----	206
Db	107978	AGATACCCCAAGCCAGTGAACACATTCATGATGATCCTGAAGCTGATCGTGGGGAAAT	107919	Db	106898	GATTGTTGGTTCGTTCTTCTTCC	106839
QY	207	-----	206	QY	207	-----	206
Db	107918	GTTTTATAAACTAGGGGCATCCTTTGGGTGGATGAACCGATGAATCAGGATGAACA	107859	Db	106838	TCCTTCTGTCCCTCTTTTCTTCTTATTTGCCACCTCTCTGCTCTTCTTCTCTTATTTTCAGC	106779
QY	207	-----	206	QY	207	-----	206
Db	107858	AGCAGATTAAAGGTTGAGCATAGGCCATAGAATAATTTAAAAACAATATAAAACTGT	107799	Db	106778	AATGCTATGAACATTTTGTACATGTTTCTTGGTGTGGGTCTATAAAATGTGTAGATGTT	106719
QY	207	-----	206	QY	207	-----	206
Db	107798	CATCAATGATAAAATATTCTCCGTACTAAACAAGTTTACTGAAATATATCAAAAGTCTTC	107739	Db	106718	CAGTTTCACAGGATGATGCAAAAGTAGTTTGTGTTTACACAGTTGTTTACAAAGGTAAT	106659
QY	207	-----	206	QY	207	-----	206
Db	107738	TGATCCTTGGCTGGTTCTTTTGAGGAATGAGTCGTCGTCGATGTTTCTGCCACCTCGG	107679	Db	106658	GGATGAGTTTACATCTCATTTAGCAGTGTATAATAACCTATTCTCTGATGATGCTGTG	106599
QY	207	-----	206	QY	207	-----	206
Db	107678	GATGGAGACCAGTGGCTCCGGCAGACACTGAGGAGGCACCTTGCTAAATGTTCACTGA	107619	Db	106598	GCNNNNNNNNNNNNNNNAACCCCATTTGTGAAAAGAGGGTTTCCAGGGAAAAAGG	106539
QY	207	-----	206	QY	207	-----	206
Db	107618	ATGAAAAGCAGTAAAGCTGGAGACTGTTGTGGCCATGCATTGTCCATGAACACACAGGCA	107559	Db	106538	GAAGAAATTTTGGATTAAAAAAGGCACCTTTTTTAAGGCCAAAAAGCCTTGTGTTCCGC	106479
QY	207	-----	206	QY	207	-----	206
Db	106478	CCCTTGTGTTAGAAAGCCAAAGTTAGGCCCAAGTTAGGCCCAAGTTCTGAAATAAAGTGAACGGAAGACAT	106419	Db	106478	CCCTTGTGTTAGAAAGCCAAAGTTAGGCCCAAGTTAGGCCCAAGTTCTGAAATAAAGTGAACGGAAGACAT	106419



QY	207	-----	206	QY	261	-----	260
Db	106418	TCAGCTGGCAAGGAGCAGCAGGCTCCANTACGATTAGAGCTAAGGTGTAACCTTCGGTCT	106359	Db	105338	CAACCCCTCTCTACAATACCTGTCACAACCTACACGAGCACACCCACACCGCCTAAC	105279
QY	207	-----	206	QY	261	-----	260
Db	106358	CGATGAGTTTGGCAGTGCCAGCAAGATGCCGATGAACCTTGCTTCCAGCCCTGAGCACC	106299	Db	105278	AACAACTTCCGCGCCCAACCCCGATGCCAAGGCCAACCAATTCTCCACACCCCCACTACC	105219
QY	207	-----	206	QY	261	-----	260
Db	106298	CGCTCTGTGGAGGCCCTTAGAGGAGGAAGGGCAGACAGATTTCAGGCTCTGAACCCCTCAT	106239	Db	105218	AACCTTCCACACCTCCTCTCACAACAAGCCACACACTCGAGACCTGCCCTTACCCAC	105159
QY	207	-----	206	QY	261	-----	260
Db	106238	GGTGTCTGTCTCCAGCTCCACCCTGCCAGGCTTCTACCTGTCTCCAGGCTCTCGCTGA	106179	Db	105158	CATCCCATGACTTACATCCCCCCCCACAAACACCCCTCTCTACTCACCCAAAGAGG	105099
QY	207	-----	206	QY	261	-----	260
Db	106178	AATCCAGGACTCCTCGCTGTTGGTGTGTGTGTCTGGGGGAGCAGGAAAGCGTGCAC	106119	Db	105098	AGCCTCTCAACCGAGCCATGCATCACTGTGCCCTGGCAGCCAGTCCAGCTAGGCAC	105039
QY	207	-----	206	QY	261	-----	260
Db	106118	ATCAGTGTGAGGTCTTCAAGCCAGCTCTTGGATACCTCCCTCCCCCATCACTCCCAC	106059	Db	105038	CCAGTTCACTGTACATGGACTTACCCACTGGCACCCCTCCGGATCCCTTATCAAAGCTGA	104979
QY	207	-----	206	QY	261	-----	260
Db	106058	CTTGCTAGGCCCAACCCCAAAATGCATCCTATGTGCCACTCCTTTCAGCAATAAACAAA	105999	Db	104978	TGGGATCGTGGAGACCCCCAGCCCTTTTGTCTAGAGCCTGACGGCTGTGCGAGCTTGAAA	104919
QY	207	-----	206	QY	261	-----	260
Db	105998	TATTCACTCAGCACCCCTGTGCCGGGCATCGCTTTCACCACCTGCCATCCTGATCAC	105939	Db	104918	AGAAACATGAAGTGGTGAAGTGGGTCAAGGTTGAGGAGGAGGAGGAGGGGGGAG	104859
QY	207	-----	206	QY	261	-----	307
Db	105938	CAAAACCACTCAAGGACTGCCTCCCTACAGTTGAGAGCCCTAAGACACCCCATCTGTCT	105879	Db	104858	AGGAAGCTGACACACCGAGAGAAAAATAATGGGTGGGAGAGGGAGGGTCTAGTCAGGCTGAG	104799
QY	207	-----	206	QY	308	-----	307
Db	105878	ACTCAGGGCCAGGTGTGCCATGCCCCAGGTGAACCTGCCCTGTGGGGAAAGAGT	105819	Db	104798	GAGGAGAGAGAAGGGTTTAAGCCCAAGCTAGAAGGACTGCTGCNNNNNNNNNNNNNN	104739
QY	207	-----	257	QY	308	-----	307
Db	105818	GAGGAGCTTGAAGGAGCATGAGACATGAGATAAGAACCTGGGAGATGGAGCCAGG	105759	Db	104738	NNNACCGCTGCTCATCTAGTCCCTCCTTTTCATTTCCCAATCTTGTCTCCCTTCCCT	104679
QY	258	CAG-----	260	QY	308	-----	307
Db	105758	ATGTGAGCAGCTCAGGAGCCCTGGGAACATCCGCTCCTGGGGTGGGTCCAGACCTGATC	105699	Db	104678	GTGTCATATCCCTGCCCTTTGGCCACTTGTGGATGGAGAGGTATTGAGGGACCAAGATGT	104619
QY	261	-----	260	QY	308	-----	307
Db	105698	CCAGCTATGCTGTGTCTNN	105639	Db	104618	GCCTGCTGAGCCAGTCTCCTCCCTGCCCTAAGGTGGGACAGGGCTGGCTAATGGAGAAA	104559
QY	261	-----	260	QY	308	-----	307
Db	105638	CCACTCACACACCCCAACCCCATACGCCACTCTAGATCAACACAATTTACACTCACTC	105579	Db	104558	ATGATGTAATTGATTATTGATGCTGCCAGGTGTGGGAGTGGGAGTAGTGGCACCACT	104499
QY	261	-----	260	QY	308	-----	307
Db	105578	CCACACACCTTCCCATACAAACCAACACACCATATCCACAAACTTCCCAACCCCTT	105519	Db	104498	GCCAAAGATTGGCCATTTCTGTAGGTATACAGTGTCTGGCACCCCAAGAGATGCC	104439
QY	261	-----	260	QY	308	-----	307
Db	105518	AAGCCCCCAACACACCATTTTCGGGCTCCATCCCATACCCCTTGGGACAACTTCTTCC	105459	Db	104438	TAGAGCTTCTGTTGGAGGCCATGGGACCAAGATTCCAGTCTCATGACCCCAACAGGTAGG	104379
QY	261	-----	260	QY	308	-----	307
Db	105458	TCCACAACCGAATTATCCATCCACACCCCGGTTTCCCACTCCACACACCTTACCACT	105399	Db	104378	GCAAGAGACACCTCGCTCTTCTGACTCATTTGGTGTGTCATTTGGAGCCTGGGAGAG	104319
QY	261	-----	260	QY	308	-----	307
Db	105398	CCCCACCCCATCCCAACACATACCTCTTCCCTTAAACACAGCCCACTACAACCC	105339	Db	104318	CCAGTACCTTGCATCTGACGTACCGAATGCTGGATTGCTGTACAGAACTTGGCAAT	104259
				QY	308	-----	307

Db	104258	AAGTCTCTTTACCTGTCTCTTGGCTTAGTGGGAGCACTATCACAGGGCTGGACACTG	104199	Db	103178	CCCTTCCCACCTTCCACAGTTTGAGCACTCACAGATATTTGGGGTGTCTCCTGAGTCCTGC	103119
Qy	308	-----	307	Qy	308	-----	307
Db	104198	CTGGGACTTGCAGGTGGTGGGATGTGGGGAAGGTCTCTTCCAGCTGTCCATACACCTGTG	104139	Db	103118	AGGAGCAGTCCGGTTCCTTTCAGAGGGTCTCTGGGTCTCTCGGGATTCCTGGTGTGTCT	103059
Qy	308	-----	307	Qy	308	-----	307
Db	104138	CTCAGCAGACTTGGCCTCTGAAGCCTCCTCCCATCCCCCTCACCCCTGTCTATACAGACAT	104079	Db	103058	CGCAGTCATCTCGAGCTAAATGTGGGATGTGAGCCTCTGTATGCTGTCTCTGTCTGTCT	102999
Qy	308	-----	307	Qy	308	-----	307
Db	104078	TCCTCAGCGACTTCTCTCTGACCCACAGGTCCTTCATGCCAGCGCCAACTCTGGCGTG	104019	Db	102998	GAGTCAGAGCTGCAATCTAGTCTGCTTCTGTCCACCAATAATGATCAACAAGTCTTAAT	102939
Qy	308	-----	307	Qy	308	-----	307
Db	104018	CCCTTCTGCACCAATATCCCTTCCAGCTCCAGGGGATGGTGTGCATGGGGATAGGATGGT	103959	Db	102938	CCTTGTAAATTTTAAATTTTAAATTTTCAATGTCTCAGGATACTTATATCAGGTTTGATATA	102879
Qy	308	-----	307	Qy	308	-----	307
Db	103958	GCCTGGGTTGAGAGAAAATCTCACCAAGGTGCTGTGTGAGCCCTTTTAAATGCCAGCC	103899	Db	102878	TAGGTAACTCGAGTCACAGGTGATGATCTATGCGTANNNNNNNNNNNNNNNNNNGT	102819
Qy	308	-----	307	Qy	308	-----	307
Db	103898	TGCTGCCAGGCCAGCTTGCCAGGGCCCTGGGCATCTCTGCCCTCTCTTTGCCCTCAGGTG	103839	Db	102818	TACCCAGCAAAAATTTGCTGCCGCCCTTTAACTTTCCTAATGAGATCTGCGGCAAAATCAA	102759
Qy	308	-----	307	Qy	308	-----	307
Db	103838	GGTGGCCCTGCTTGGATGTTGGTTGATGAACCTCTNNNNNNNNNNNNNNNNNNNA	103779	Db	102758	TAAAAATTTAAAGGATCAGTGAGCACTAACCAAGTGAACCCGTTGTCTAGGTACTAGCA	102699
Qy	308	-----	307	Qy	308	-----	307
Db	103778	AGGAAACCATAAAGCCAATGATTTTAAACCCAGGAGGTATATAGAACCCTCGGGAAGC	103719	Db	102698	GGATTCAGGATGACCAGAGTCTAGCCCTACTTTCAAAGGTTACAAACGCTACACTCAC	102639
Qy	308	-----	307	Qy	308	-----	307
Db	103718	AAGCAGGTTTCAGGAAATGGAAAAACCAAGATGAAAGCCTACCCAGGTCAGGCAATTG	103659	Db	102638	ATCCACGAATACATATGGGCTATATGCTAAATTAGTACTTTAAACATTACTAATTTTAC	102579
Qy	308	-----	307	Qy	308	-----	307
Db	103658	AAGGGCTGTCTAATCCCACCATGCTCCCCAGTAATCCCAAGTCTGTTCAGGCAATTGC	103599	Db	102578	ATTTTACACCTTGCATTAGATTATCTGTCCCTTAACCTGGTATGAACATGGATATCTTAA	102519
Qy	308	-----	307	Qy	308	-----	307
Db	103598	TGAGGTGAGCAGGGTTGAGGAATTGCCCTCAGGCTCCCGGCTCCCGAGCTGCAAAAAGAC	103539	Db	102518	GGAAAAAACCTTATGGCATTAAAAATGTAAGAATACTGTGATACTTCAATTAACCTAGTT	102459
Qy	308	-----	307	Qy	308	-----	307
Db	103538	AGGGTCTAATTTTCCCGGCTGTGGAGTCTGCCACCGGATTCGCCCCCTAGCCCGA	103479	Db	102458	TGAAAGTCTAGTTAAAAGTCTTCTTTCTTCAACATAAAATACTAAAAATACATACATACC	102399
Qy	308	-----	307	Qy	308	-----	307
Db	103478	GTCTGCCAGGAGGCTTCTAACCCTGGTTCAAAATGTTACAAGTCCAGCTGGAGACTTC	103419	Db	102398	CTGCACTAAATAACTTCATGTTAGTGTGAATTGGCACAATAACATTTAAAAGTTTATATA	102339
Qy	308	-----	307	Qy	308	-----	307
Db	103418	CTTCTCCCTGTGGCGTCTTCCCCCATGCTCTGGTGCCTCCAGGAGGTCCTGTGGTTC	103359	Db	102338	GAAAGGATCTCACTATCTATTTAACTTCCTCTTTACAAAGGTAATTTATTCATATGCTAAT	102279
Qy	308	-----	307	Qy	308	-----	307
Db	103358	CAGGCAGGAGTGGCTGCTTTGGGAGCCAGTGAGCTCCAGGGCTTTCCCACTGTTTCTT	103299	Db	102278	GAAGCAGCTTTGGCAAGTGGTTACAAAAACATCATGAAAAATATAAAAAATATGTTACATTT	102219
Qy	308	-----	307	Qy	308	-----	307
Db	103298	CTACCCATGTATTTTCTTGGCTCTCTAAATTGACTCAGCTCCAGGTAAGTTGGAAACT	103239	Db	102218	ATGGGCTACTGAAGAATGTATCTAAATTTAACATTTTAAATGACTCATAAAAATAAATGC	102159
Qy	308	-----	307	Qy	308	-----	307
Db	103238	TCTCTTGAGTATGACTTTTCATTTTCCCAAGTGGGGTGTGTTCAGGAGTGGAGGTCT	103179	Db	102158	TGATCCTTACAAATGATCTCATTTGTTATATTTTATTTTTCAGAAAAACAGAGTTCACCT	102099
Qy	308	-----	307	Qy	308	-----	307
Db	102098	TGAATACAATTTCTCACTAGTAAATCACAATTCACCTTATAGTTAATTAATCTTATGTTCA	102039	Db	102098	TGAATACAATTTCTCACTAGTAAATCACAATTCACCTTATAGTTAATTAATCTTATGTTCA	102039

QY	308	-----	307	QY	308	-----	307
Db	102038	AAGATAGTCCTTTCCTGCTATATAATTTCATTTTCTTAAAAAGCAAAACACTTTCAGTAG	101979	Db	100958	GCCACCTTGGAGGCCAGCTGGGAGATAAAGCTGTAGGGATATAAAGGCTGTGCCAGGAC	100899
QY	308	-----	307	QY	308	-----	307
Db	101978	AAAAAATTACATATGAAGTCAAAAACAATTATTTCAGCAAAATGGAAATCAACCACC	101919	Db	100898	CTTGGCCTTGGCTGAGCCTCCACAATACCCTAGGAGTCGACCTTGCCTGTGGTTGCT	100839
QY	308	-----	307	QY	308	-----	307
Db	101918	GTATCTTTCTTGAGTTCTTCGACAGAACTATCCTTCAATCCTGACTTGTCTATGTGATT	101859	Db	100838	CAACAGTGGGAAGAGATTGAGCAGAGAGCGAGGTATCCTCCTCTGGACTCTACCTCCTGT	100779
QY	308	-----	307	QY	308	-----	307
Db	101858	AAATAATGACGTGCAACTGAAAAAGAAAAAGAAATTCCTCATTTTAATCTCANNNNNN	101799	Db	100778	GAAGAATACGTNNNNNNNNNNNNNNNNNNNNCAAGTAGTTCATCAACATAACGAGAACA	100719
QY	308	-----	307	QY	308	-----	307
Db	101798	NNNNNNNNNNATAATAGCATCATCAGCACTCCCATCCAGGAATATCTCACTCAGTA	101739	Db	100718	CACAGGGCGCTATCGCACAGAATCAAAATTCGATGACTGGAAAAATTTTGTGTTAATTTCAG	100659
QY	308	-----	307	QY	308	-----	307
Db	101738	ACAACTTGCAGAGTATCATGTCTAGTCACTTTTAAATACAGTTCATATCCTCAGAACAAAT	101679	Db	100658	AGGTCCCTGACGCATATACCTTTTCAACTGAAAAATTTGGGAGAAAAAGGAAGGTGAG	100599
QY	308	-----	307	QY	308	-----	307
Db	101678	TTCTATTCCGCATCAAGATACTGAGTCACACGGAGACGCTTAATCTTTTCCCAACGTCTCT	101619	Db	100598	AGCGCCGGAACCGGCTTTTCATATAGAAATAGAGAGCGTTCATGACTAAATGCTTGCAATC	100539
QY	308	-----	307	QY	308	-----	307
Db	101618	ACCATAAATAGTAGTACGCCATACTCAGGCAGTCTAACTGCAGAGTCCATATTCCTAAA	101559	Db	100538	ACAATACTGAAGTTGACAAATATTATTAAAGGACCTATTGTTTTTCCAAATAGTGGTTA	100479
QY	308	-----	307	QY	308	-----	307
Db	101558	CACCAATGTCACCTGCTACCTCCTGCCCGATTGCTACTCTCAAACTTGACTCGTCACT	101499	Db	100478	GCAATCGCTTACTTTCTTAACTTTTCTTACCTTTTACATTTTCAGCAATATATATATAT	100419
QY	308	-----	307	QY	308	-----	307
Db	101498	CCTTACTATGCATGCCACAAGAATATTCAAGGAATCTTGAATTCATTCAACAACATTTTA	101439	Db	100418	TTCAAGGATATACCATTCTAATGTCTGCCCTTAAGNAGATCGTCTTTTGCCAGGTGACC	100359
QY	308	-----	307	QY	308	-----	307
Db	101438	CTGTAGGTGCCGGGAACCTTTGCTGTAACTGGAGAGCTCAAACTGAGCAGCAGACACTG	101379	Db	100358	ACGTTGGTCAAGAAATCACAGCCGAAGCCATTAAAGGTTCTTAAAGCTATTCTGTATGTTT	100299
QY	308	-----	307	QY	308	-----	307
Db	101378	TCCCAAAATCTTCAGGGCCCCAGAGCCTATTGGAATTTATCTTTTAATCTCCCTAATAACAATA	101319	Db	100298	GTTCCAAATGTCAAGTTTCGATTTTCGAAAAATCATTTAATTGGTGGTGTCTGCTATCGACCTGC	100239
QY	308	-----	307	QY	308	-----	307
Db	101318	ATCTGATTGGCTCTCCCTCCCGACAGCAGTGTCTGGCATGAAGCTGATGCTTAATGATTA	101259	Db	100238	AGGGGGGGGGGAAAGCCACGTTGTGTCTCAAAATCTCTGATGTTACATTCACACAAAGAT	100179
QY	308	-----	307	QY	308	-----	307
Db	101258	CGGGTGGAAATGAAATGAACAGGAACAGTGGGCAGTCAGCTGGTGCCTGCTATGGGCCTG	101199	Db	100178	AAAAATATATCATCATGAACAATAAAACTGTCTGCTTACATAAACAGTAATAACAAGGGGT	100119
QY	308	-----	307	QY	308	-----	307
Db	101198	TAGCCTCAGAGGGTGGGAAGGAGAGAGCTAGTTTCCAGTTCAATTTCAAGGCCTTTC	101139	Db	100118	GTTATGAGCCATATTCAACGGGAAACGCTTTGCTCGAGGCCCGGATTAAATTTCCAACATG	100059
QY	308	-----	307	QY	308	-----	307
Db	101138	ATGCCATCTCTCCCTCCTTCCTGGCTGCCCTTCTGTCTCCTACTCATGTCTCCTCTATCC	101079	Db	100058	GATGCTGATTATATGGGTATAAATGGGCTCCCGATAATGTCGGGCAATCAGGTGGACA	99999
QY	308	-----	307	QY	308	-----	307
Db	101078	TGTGCTGCAGCTTTGTTCACAAGGCTCAGCGGTGACATTTTGAGGGTGATTGGTGGGATG	101019	Db	99998	ATCTATCGATTCTATGGGAAGCCCGATGCGCCAGAGTTGTTTCTGAAACATGCCAAAGGT	99939
QY	308	-----	307	QY	308	-----	307
Db	101018	GAGAGAGGAGGATGGAGGAAAAATTTCAATAATAGGCCTCCCATGGGACTGCGAGCAAAATG	100959	Db	99938	ACGCTTGCCAATGATGTTTACAGATGAGATGGTTCAGACTAAACTGGCTGACGGAATTTATG	99879
				QY	308	-----	307



QY 339 ----- 338  
Db 97658 CCCACTCTACTACCATCACACTTGGGGGTAGTTTCAACTATGTTTTAGGGGCACAG 97599  
QY 339 ----- 338  
Db 97598 GCCTTTAGACATTGCCAAGACATTAGTAGTGNNNNNNNNNNNNNNNNAGAACCCT 97539  
QY 339 ----- 338  
Db 97538 GAGTATCCACAGTTAATGCGGTCAGATATTTCTTGAATCAGCGCCTTAGACCGTT 97479  
QY 339 ----- 338  
Db 97478 CGGCCAACCAACTTACTTCTTGAGAAATAGATATATTTACCCATATAATATAACGT 97419  
QY 339 ----- 338  
Db 97418 TTTTGAACACATGAACAAGGAAGTACAGACAATTGATTTTGAAGAGAATGTGGATTT 97359  
QY 339 ----- 338  
Db 97358 TGATGTAATTTGGGATTCATTTTATAAGGCAATAATATTAGGTATGTAGATATAC 97299  
QY 339 ----- 338  
Db 97298 TAGAAGTTCTCCTCGACGCTCTCCCTTATGCGACTCCTCGCATTAGGAAGCAGCCAGTAG 97239  
QY 339 ----- 338  
Db 97238 TAGGTTGAGCGGTTGAGCACCGCGCGCAAGGAATGTCATGCAAGGAGATGGCGCC 97179  
QY 339 ----- 338  
Db 97178 CAACAGTCCCGCCACGGGCGCTGCCACCATACCCAGCGGAACAAGCGCTCATGAG 97119  
QY 339 ----- 338  
Db 97118 CCCGAAGTGGGAGCCGATCTTCCCATCGGTGATGTCGGCGATATAGCGCCAGCAC 97059  
QY 339 ----- 338  
Db 97058 CCGACCTGTGGCCCGGTGATCCGCGCCACGATGGTCGGGCTAGAGGATCTACAACCTC 96999  
QY 339 ----- 338  
Db 96998 CACTTATTTAGGTAGAAATTCCTCGTTAGTTTATTTAATTTGCAATAATGGGGCGTCC 96939  
QY 339 ----- 338  
Db 96938 AGTTTTGCAACAGTCTCTCTTACCAGGACACCTATGAGTTTGCTCATGGCAAACTAG 96879  
QY 339 ----- 338  
Db 96878 AGGTGTGAAGTAGTCATGTTATAAATAGACAATTCAATTACCTCTGAAATCCTGCGC 96819  
QY 339 ----- 338  
Db 96818 GTATACCCCATTTGCTTATCTTTATTTTGGCTAAACCGCATTAAGAGCTTCGTTTA 96759  
QY 339 ----- 338  
Db 96758 CCGTCATGAATGCGGTAGTTATCGAAGTTTGATATCCCGCAATATCAGCGGAACGCT 96699  
QY 339 ----- 338  
Db 96698 TGTTCTCAGTAAGCATATTTCCGCGCAGCGCCTCTACTTTCTGCTTGAACATCATGTT 96639  
QY 339 ----- 338  
Db 96638 TTTGATGCGTTTTTTGGATAACCGCAGATGTGACGCTTTGCTTTTGCCTTAGCGATCC 96579

QY 339 ----- 338  
Db 96578 ATGAAGTCAATTTTTGAGGCTGGTTGTTCACGCGGAACATGATCTTTTGTCTTTTAA 96519  
QY 339 ----- 338  
Db 96518 CTGTGATCTTATCTTATGGATGACTTGTNNNNNNNNNNNNNNNNNNNCACATAGCT 96459  
QY 339 ----- 338  
Db 96458 TCATCATCAOCTGACACTTCTAAAGCCACTGTACTCTGCCCCCAGGACGACAAATATC 96399  
QY 339 ----- 338  
Db 96398 CAGAGTTGCTCTCTTCCCTAAGGCTGGAATATGCCAAGCCCGCTGGCCACCCTACACA 96339  
QY 339 ----- 338  
Db 96338 TTAAGCCCCCAAGTTCCACCTTCTCCCAACACAGGCTGAGGCTGTGCTGCCAGG 96279  
QY 339 ----- 338  
Db 96278 CCCACCTCATGCTCTCCACACTGCCCTCTCCACCCACTAGGGCCACAGCAGAGTGTTTC 96219  
QY 339 ----- 338  
Db 96218 TGGTAAGATGCACACTATCTCATCCATGGTTGGGAGGCACAACTTCTCTTCCAGGGGTTTT 96159  
QY 339 ----- 338  
Db 96158 CCACCTTAGAAATCCCATAGGCTCTCTTCCACAACCAGTTGGAATGACCCCAAGCG 96099  
QY 339 ----- 338  
Db 96098 GAAGTTTCTCCCAAGAAAATTTATAGTCATAATATAGGAAATTTCCAGATTCTACTGAGAT 96039  
QY 339 ----- 338  
Db 96038 CTCACTTTGCCACAGTGCTCTCTCATACATTTATTTCAATTTAATCCTTTCCACAGTCTTAC 95979  
QY 339 ----- 338  
Db 95978 ACAGGAGCAACCCAGTGGAAAGGATTTTCTCTGTGTGGCAGAGGAGATTCTCCCCACA 95919  
QY 339 ----- 338  
Db 95918 CTCCTCAGCTCAGCCCTCCCTTGGGACTCTTCCGACCCCACTAGCTACCAATTTAA 95859  
QY 339 ----- 338  
Db 95858 CCCATCAGCACCAGCATTTTGCACAGTTTACTAAACAGGAACATGGTCTTCTCTGCTGCC 95799  
QY 339 ----- 338  
Db 95798 AGTCCCATCCCTGGACCTCTCAATACTGTGGCCAGGTCCCTTCTGTATTTCTCAATTC 95739  
QY 339 ----- 338  
Db 95738 TCCTAACACTGCAACAGAGATCCATTTCTCTGACCCCTGTACAGCCCCAGATAGGACGAG 95679  
QY 339 ----- 338  
Db 95678 GCCCCTCTCTGGTCMAAGGTCTTTTCAGTTTCTTCTTAAGCTTGCCTTCCCTTAAGGC 95619  
QY 339 ----- 338  
Db 95618 TCTACCCAAAGTAACATCACACCTTAAACAACCTCACCTGTCCACGAGCAGTGAAGAG 95559  
QY 339 ----- 338  
Db 95558 TGACCAAGGCGCAGCCAGCGCATCTAGACCCCATGGACCCCATAGCTTTTATTTCCCTTA 95499  
QY 339 ----- 338

Db	95498	CAGTGGCCCCAGACAAACAAATCTTGGGGAGATCAAAAGTCAGGCTGGACTAAGGGATAT	95439	Db	94418	TGGAGCCCCAACACCCAGGCTCCAGCACACGCCCCCTTCTGGTATTATTCTGACTTGGGA	94359
QY	339	-----	338	QY	445	-----	444
Db	95438	TTGGGGCTGATCCTCCAAGGTGTCAGAAGGGAATTNNNNNNNNNNNNNNNNNATTG	95379	Db	94358	GAGGGCACATTAGGAGGGTGGTCTGGACCGTGGCCAGGTTGGTCAATTCTCTGTCTATC	94299
QY	339	-----	338	QY	445	-----	444
Db	95378	GCCTGGAAGTGAATAAGGCTTTGTGGAACCAAGATTGGGTGAGAAACCCGCAATTTTACA	95319	Db	94298	CCCAGGGGATTGATGATNNNNNNNNNNNNNNNNNNNNNTACAACACCCTAAGAAATGTCT	94239
QY	339	-----	338	QY	445	-----	444
Db	95318	TGGAACACTGCTTAGTAAAGATTCCCTGCCCTATGGTAACAAGCCATTTGGAACCCCG	95259	Db	94238	ATAACCTCACTGACAGAACAGAACTAGCATGAGAGGTTCAAGTCAACCCAGCCAGTAGCAA	94179
QY	339	-----	338	QY	445	-----	444
Db	95258	GGCCTGTACGCCCTGGNAATAATGGCCATGAAGCCCTCAGACCCCTTCTCTTCCCTACCA	95199	Db	94178	GTCAGCTGGAATTTGAACTGTGACCCACCCGAGCTGCAGTTTCCAAAACCCACTTGTTC	94119
QY	339	-----	338	QY	445	-----	444
Db	95198	CCTGAGAATCTGGGTTTGTGACATCTCTGGACAGGATGCTTACCATCTACGAGCCCT	95139	Db	94118	AGCCACAACCTGGGTCTCTGAGTGGGAAGGTCTCTCAGAGATCCCCCTGGTCCAACATCCT	94059
QY	339	-----	338	QY	445	-----	444
Db	95138	CTCAAAGGGCTCACTTTACAGTTTACAAAGCACTTTACAGTTTACAAAGCACAAATCGCCC	95079	Db	94058	CATCTACAGAGGAAGAACTGACTTGGGGGGGTTTGGGAGTGTGAGGGATCCAGGTCAC	93999
QY	339	-----	338	QY	445	-----	444
Db	95078	CCTTGATTTCATTGGATCTCATGTAAATAGGATCAGATGTAAATAGGCAGACAGGCA	95019	Db	93998	ACAGTGAGTCCGTGGCAGTCAGGCCAGGGGCTTCTGGGCCAGCCAGGTTCCCTTCCCTC	93939
QY	339	-----	338	QY	445	-----	444
Db	95018	TTGTCTGTCTCTGTCACCTTACAGGAATAAAGCCTGGAGGTGAGGTACCTTGTCTAA	94959	Db	93938	CACAACAGGTAAGGATGCCCCCAGAGATCAATCTGAGAAACCGTGAAATCTGAGTGCTG	93879
QY	339	-----	338	QY	445	-----	444
Db	94958	CTCAGTTGCGCATACTTCGGACAGCCAGACAGCTGTGGAGAAGTTCAAAGTTCCACCCAG	94899	Db	93878	TGTGAGCCCTGGGTCACGGGTGCAGGGATTCTGACTACGGCTTTCGAAGTGCCACAG	93819
QY	339	-----	338	QY	445	-----	444
Db	94898	AAGTGCTCCCATTTCTAGTCTCCCTACACCCACCCACCTGCCCCCTTCTCTCCCTCA	94839	Db	93818	TGACAGGGGCTCAGGCCCCCGCTGGGAGAGAGGGCCAGAGTTTCGGCCAACTCTCTCCT	93759
QY	339	-----	352	QY	445	-----	444
Db	94838	CCAGCCACCCTCTCTCTAGCTTCCCCTCTGGCTTCAGGTCCCTGAAAAGACCTGCTGGG	94779	Db	93758	CCATCTCATGAGTTCTCAGGGCTCGGGCTCGGGCCCGGGGAACCGTAGAATTGGGCAT	93699
QY	353	GGTTTCCATGAACGTGATCCCTGCTGTGGCTGGGACAGGGCCACTGCACACAGTATCGGA	412	QY	445	-----	444
Db	94778	GAGTTGCAGTACAAACCAGTCTGTGCTGGCAGGGCCCTGGGCAGGCAATCTTAGTGC	94719	Db	93698	CTCGGTCTGGAAGGCCCAAGTCGTGTTTCACTGGGGGGCAGAGGCCAGCGTGGGGAG	93639
QY	413	G-----	413	QY	445	-----	444
Db	94718	GTCCCCAAGCAGAGGCCTGAGGTCTGGCATGTGCAGGGCGCTGGCCCCAGGGCTGGCGGA	94659	Db	93638	GAGAGAAATTGAGGCTATGTGGGTATGAAACCCCACTGGGATGCCACCCCTCAGCACTC	93579
QY	414	-----	413	QY	445	-----	444
Db	94658	AGTCACTAGGTGTCCCAAGGTATCCCTGCCCCGGTTCATGGGGCCAGCCAGTGCAGA	94599	Db	93578	CCCAAGTAGTGCCTTCTCCAGGACTGCCCTGTCTCTGTCTCCCTCCTCAGTCCCGAGCCAG	93519
QY	414	-----	425	QY	445	-----	444
Db	94598	CACAGAGCCCTGGAGACTTAACGACAGGAATGAGAAGGAGGAGGAGCCAGGGGAGGAG	94539	Db	93518	CCCGGGCACCCCAACCTCGGCTCGGGCTCACCATGGCAGAGGGCACCTTTCATCCAGCAG	93459
QY	426	AAGGAGCAGGAGGGATTC-----	444	QY	445	-----	444
Db	94538	GAAGGCAGGAATGCTACCCAGCAAGCCCCCTGTGTGCGAACAACAGTGCCTGAGTGT	94479	Db	93458	CACCTGGCAGATTCCCACAACTTGGCTCCGGGAATGACCCCAAGTCCCGAGGGCCAAGAT	93399
QY	445	-----	444	QY	445	-----	444
Db	94478	AATGACTTGTGTTTATATAAAATGCCAGAGTGGCCCCAGTCCCTGCCCCAAACTCCCAT	94419	Db	93398	CCCATCCACCAAGTCCCGGCAGAGCAGCAGTCCCTATGGAAGGTAGAAAGGGGACAGGCC	93339
QY	445	-----	444	QY	445	-----	444
Db	93338	AGTGAAGAGGGGTGGCAGGGAGAGGGAAGAACTATGCAATTAGATAGNGCACCTCTGAGG	93279	Db	93338	AGTGAAGAGGGGTGGCAGGGAGAGGGAAGAACTATGCAATTAGATAGNGCACCTCTGAGG	93279

Qy	445	-----	444	Qy	481	-----	480
Db	93278	CCCAAGCCTGGTTTCGTCGTGCTAGGATGCAGGTTAGGCCCGGCTTACATTAAGT	93219	Db	92198	TCCAGTCTGTGGTACTTTTGTATTGTAGTCCCTAGCAACCGAGTACAGATGGTACTTACAT	92139
Qy	445	-----	444	Qy	481	-----	480
Db	93218	TGACGGAGAGGAAGCAATGAGCTTGCGAAGAGCAACAGGGCTCAATTACGGTTGACGCTT	93159	Db	92138	TCTAGAACTCTTGAGAGGCTCTGACTAGGGAACACTAGGTATAGTAAAGGGTGATAGT	92079
Qy	445	-----	444	Qy	481	-----	480
Db	93158	AAGTGNNNNNNNNNNNNNNNNTATCCCGAAGAGCTGCCATGTATAATAGTGTGC	93099	Db	92078	CTGTTGGTAAATATACAGCTGATATTTTGGGAAAATCTCAGTCATTGTTGCTTCAACTA	92019
Qy	471	CTTTGGGCAT-----	480	Qy	481	-----	480
Db	93098	CATTCTGAATTTTCATGATGTATCCATTGGTCCACTACATTAAACCAATAAACTGAATCT	93039	Db	92018	TCTCTTGATGAACCACTCGNNNNNNNNNNNNNNNNNAATATCTAATTTCCAGCGAGAA	91959
Qy	481	-----	480	Qy	481	-----	480
Db	93038	GAATTTGTAGAGTGGGTCAATTTATAAATTCATAAAAAATTAATTTATTCATCAATCA	92979	Db	91958	CCTGTGTCCAGTAGCGATATGTCTACTCTAGTAAATCTGTCCATCCGCATAGTTAAACAAGT	91899
Qy	481	-----	480	Qy	481	-----	480
Db	92978	AATAATGAATATTTAATAATACTGGGCATTGGTGTAAACAGAAAATTTTAAAGCCA	92919	Db	91898	ATACACTCCGTATCCCTAACGTGACTGGGTCAATGTGCCGCCGACACCCGCCCAACACGG	91839
Qy	481	-----	480	Qy	481	-----	480
Db	92918	TCATTTGCTTAAACCTGTAAGTGGGTCTAAGGCTAATAAAAGGAACAGACAAATA	92859	Db	91838	CTGACCCNGCCTTGACGGGCTTGTCTGCTCCCGGCATCCGCTTACAGACAAAGCTGTGACCG	91779
Qy	481	-----	480	Qy	481	-----	480
Db	92858	TCTGTAAATGAATTAAGAAATFAGGATAAAGGAGAGATTACTGTGCTTTAATACAGCA	92799	Db	91778	TCTCCGGAGCTGTCATGTCTCAGAGGTTTTCACCGTCTATCACCAGAACGCGGAGGACG	91719
Qy	481	-----	480	Qy	481	-----	480
Db	92798	AGAAGACTCTTAGTGGAGGTGATPACTTAAAGTTTGGGGGACTCCTAGGAAAAGAT	92739	Db	91718	TGCGTAAAGCTCATACAGCGTGGTCTGAAAGGATTACAGATGCTCGCTGTTTCATCCG	91659
Qy	481	-----	480	Qy	481	-----	480
Db	92738	GGTGGATTAAACCACATTTTCTTCTTACCTTTCCTCAGATTCTAGTAAATAATAGTAA	92679	Db	91658	CGTCCAGCTCGTTGAGTTTCTCCAGAAAGGTTAATGTCTGGCTTCTGATAAAGCGGCCA	91599
Qy	481	-----	480	Qy	481	-----	480
Db	92678	AGAATTACAAATGAATAATCATAAACAGCAAAAAGAGGGAAGTGCATTAGGAACAA	92619	Db	91598	TGTTAAGGCGGTTTTTCTGTTGGTCACTGATCCCTCCGTGTAAGGGGATTCTCTGT	91539
Qy	481	-----	480	Qy	481	-----	480
Db	92618	AAACTATTAAATACATTTTAGAAAGATGAAGGTGGAGGAGTTACAGAAAGGATTTGCATG	92559	Db	91538	TCATGGGGTAAATGATACGGATGAACAGAGAGAGGATGCTACGATACGGGTTACTGTATG	91479
Qy	481	-----	480	Qy	481	-----	480
Db	92558	AGGGAGCATGAGAAAGTATTATGGCTAAATTTATGTTCTCCTCAANTTCATATGCTGNA	92499	Db	91478	ATGAACATCCCCGGTTACTTGGAAACCTTGTGAGGGTAAACAACCTGGCGGTATGGATCCGC	91419
Qy	481	-----	480	Qy	481	-----	480
Db	92498	GTCCACCCCCAGTACCTCAGAAATGTGACTACATTTGGAGATAGGATCTTTAAAGAGGT	92439	Db	91418	GGGACCAGAGAAAAATCACTCAGGTCATGCGCAGCGTTCTGTTAATACAGATGTAGGTG	91359
Qy	481	-----	480	Qy	481	-----	480
Db	92438	AATCAAGTTAAAGTGAGGTCAATTAGGGTAGGCCCTAATACGATATGATTGCTGCCCTCAT	92379	Db	91358	TTCCACAGGGTAGCCAGCAGCATCCTGGCATCGAGATCCGGAACATAATGGTGCAGGCGG	91299
Qy	481	-----	480	Qy	481	-----	480
Db	92378	ATGAAGCGGATTAGGACACAGGCACATAGGGAGGAAGACCATGTGAAGACACAGGGAGA	92319	Db	91298	CTGACTTCGCGGTTTCCAGACTTTACGAAACAGGAAACCCGAAGACCATTTCATGTTGTTG	91239
Qy	481	-----	480	Qy	481	-----	480
Db	92318	AGACAGCCATCTGCAAGCCAGGAGAGGCGCTTTAGAAGAAACCAATCCTACTGGCACC	92259	Db	91238	CTCAGGTCGACAGACGTTTTCAGCAGCAGTCGCTTCACGTTCCGCTGATCGGTGATT	91179
Qy	481	-----	480	Qy	481	-----	480
Db	92258	TTGATCTTGGACTTCTAACCTCCAGAATTGTGAGAAAATAAATTTTTATTATTATCA	92199	Db	91178	CATTCTGCTAACAGTAAGGCAACCCCGCCAGCCTAGCCGGGTCTCAACGACAGAGCA	91119
Qy	481	-----	480	Qy	481	-----	480

Db	91118	CGATCATGCGACCCGTTGCCAGGACCCAAACGCTGCCGAGATGCGCGGTGGCTGC	91059
Qy	481	-----	480
Db	91058	TGGAGATGGCGGCGCATGGATATGTTCTGCCAAGGTTGGTTGGCGCATTCACAGTTC	90999
Qy	481	-----	480
Db	90998	TCCGCAAGAATTGATTGGCTCCAATCTTGGAGTGGTGAAATCCGTTAGCGAGGTGCCGCC	90939
Qy	481	-----	480
Db	90938	GGCTTCCATTAGTGCAGGTGGCCGGCTCCATGTCACCGCGACGCAACGCGGGAGGCA	90879
Qy	481	-----	480
Db	90878	GACAAGGTATAGGGGGCCCTACAATCCATGCCAACCCGNNNNNNNNNNNNNNNNNG	90819
Qy	481	-----	480
Db	90818	CCACTGATCATCAGCATAGTACCTAGCACAGACGTTTGCACATAGTTAGGTGCTCACTG	90759
Qy	481	-----	480
Db	90758	ATACTTATAAAATTTAATTGAATTTGACGCAAGAATCATATTAAAGTAAATGTTTAAAGTA	90699
Qy	481	-----	480
Db	90698	GCAGCCTAGCAAAATTTTGGGCATGGTGAAGCACTGGTAAACCAGTTAATTTTAGAGA	90639
Qy	481	-----	480
Db	90638	CTATCAAGTTGTTAAAAATATTAGGACACCATCCTTTAATTGTTATCAGCATCAATAAG	90579
Qy	481	-----	480
Db	90578	ACAGTTCAAGTTTACAATTTTATACGATATTGTGGTTAAATTTTATGGCCATTATACAT	90519
Qy	481	-----	480
Db	90518	TACTATCTTATGAATTTTGAGAAGTAATCATATAATTTTACAAAGATAATTTCTTC	90459
Qy	481	-----	480
Db	90458	AGATTGTTGATATAAATTTATGAGATATGTTGTAATTTGGATAGTTTGAATGCTTTAAAA	90399
Qy	481	-----	480
Db	90398	TACACTTGATAGATTTATAACTTTTGTATTGCTAAATGTATTATGATATATACACAG	90339
Qy	481	-----	480
Db	90338	GCAATTTGAATTTAGCTTTTATCTGTATGATCTGAATGTTTATATCCCCACAAATTC	90279
Qy	481	-----	480
Db	90278	TATGTTGAAATCCTAACCCCTGAAGCGATGGTCTTCGGAGTGGGCCTTTGGGAAGTAT	90219
Qy	481	-----	480
Db	90218	TGGGTCAAGAGGCGAGGCCCTTGTAAGAGGCCCCCAGAGAGCTTGTCCACCAATTTAC	90159
Qy	481	-----	480
Db	90158	CATGTAAGCACACATAAAGAGCCACCATCTACGAACAAGAGTGGGCCCTTCACACAGA	90099
Qy	481	-----	480
Db	90098	CCAGAGACCAGAATCTACTGGCATCTTCATCTTGGACTCCCCATCCTCCAGAACTGTAAG	90039
Qy	481	-----	480
Db	90038	AAATAAAATTTCTGTGTTTATTATTAAGCTACCCAGTTTGATATTTTATTATAGCAACC	89979
Qy	481	-----	480
Db	89978	CGAATGGACTACGGTATGATCCCTTTGAAGAAACTTACAAGTAGTCAGGCGAGGTAATGT	89919
Qy	481	-----	480
Db	89918	TATTGTCAATCTTAACATAAGAAAAGGAGGCTCAGAGGGTTAATGTTCTCTGTCATGATTA	89859
Qy	481	-----	480
Db	89858	TAGAGCTAAAAATTTGGCCAAAACAGTTTCAGAAAGTGTCTCTCTCTTAATGTAGAGCTA	89799
Qy	481	-----	480
Db	89798	TTTGAATCTACTTCCAGCTGCAGTTTTATGTTGTGTTACCTGTGTAGAGACTGTTAACTG	89739
Qy	481	-----	480
Db	89738	AAGAAGTACAGATCACAAAGATTTACTATAGAATTTGAATTTTAAAAAATTTCTCATGTTT	89679
Qy	481	-----	480
Db	89678	GATGAACACGNN	89619
Qy	481	-----	480
Db	89618	AACTGAGAAACCCCTAGGCACTGCAAAACCAATTGAGTGTGGATTTCAGTGGTGCTACAG	89559
Qy	481	-----	480
Db	89558	GAATGTAGTCCATACCCAAAATCCATATGCTGAACCCCTAATCCCACTGTGATGAT	89499
Qy	481	-----	480
Db	89498	GTGGAGACGGGCCCTTTGGGAGGTAACCTGGGCCATGAGGTGGAGCCCTCATGCTGGAT	89439
Qy	481	-----	480
Db	89438	TACTACCCCTTATTAAGAAAGAACAGGAAGAGCTGCTTCTCCCAACCCCAACCCCGGTT	89379
Qy	481	-----	480
Db	89378	CTCTCTGGCTCTTTATCTGCTGCTCTGCTCTGCCAGTGAGGATACAGTGAGACAA	89319
Qy	481	-----	480
Db	89318	CAGCCATCTGCAAAACAGGAAGAGGCCCTCACCAACACCAGTCTGCTGGCTTCTTGA	89259
Qy	481	-----	480
Db	89258	TCATGCACTTATCAGTGTCCGAACCTGTGAGAATAAATGTTCTTGTGTTTAAGCCACCCA	89199
Qy	481	-----	480
Db	89198	GTGTATGGTATCTTAAATAGCTCTCTGAACCTAAGAGACATGAAACATAGAAATTTGCT	89139
Qy	481	-----	480
Db	89138	GCCTATCAGTGGGATTAATAATGTGCAGTGTATTTTAAAGAGTTGATCTCCAAAGTACAG	89079
Qy	481	-----	480
Db	89078	TACTTAGCAGTAATATGAAGTTAATAATGTTGCTAGNATAAGGAACGAATTCAGGCA	89019
Qy	481	-----	480
Db	89018	GTATAGAATGAGAATCAAGTATCCAGATGAAGCCTTAAAGTTTGGCTGAAAGCACTTGCT	88959
Qy	481	-----	480
Db	88958	GAACATTTAAAGACCTTTTCATCATCAATGAGGATTATTTAATGCCCCTTTTATAGATT	88899



QY	481	-----	480
Db	88898	GTGTTACAGAGTCTCTCCCAAAATGTTTTTGAATACCAAAATGAATGATAAAAGGAAT	88839
QY	481	-----	480
Db	88838	AGGGTATAAATGTTCTGTTCTCATGTGGAATCCOCTTGTTCATGGCAGTTCAAAATAGAC	88779
QY	481	-----	480
Db	88778	TAATATTAGCTAATATTATATACATCCTACTGTGTGGCAGCACTTTACCAAGGTTCT	88719
QY	481	-----	480
Db	88718	GCATATATTATCTCAATCTCAGAAACATCCAGAAATAGGTTTCTCTGTAAGCTGGGGTC	88659
QY	481	-----	480
Db	88658	AAGCAGAACTAGTCTGACTTAGAGGCTCATATTCTCTCTGACACTGCAGTGTGCT	88599
QY	481	-----	480
Db	88598	GAGCACGTTCAGGATAACAAAGACACAGCGCTGGAGAGGCGCTGCAGCTGC	88539
QY	481	-----	480
Db	88538	ATTTCTCGGTATTACTACCACCTACTGGATCTCATGAAGAACTGCTGNNNNNNNNN	88479
QY	481	-----	480
Db	88478	NNNNNNNAGATCGATCATCAATATATCCAGTTGGGAGGTTTCTGTGATTGGCCAGGCTG	88419
QY	481	-----	480
Db	88418	AGGTAGAACACGCTCTTCCAAAACATGAGGTGGAAGAAAGTGACCTGATGTGACTTT	88359
QY	481	-----	480
Db	88358	CAAGAGTACCCGAAGTGCCCCCTCGCTCCTGAACCCAGCCCTCGCTGTCTGCCCTGG	88299
QY	481	-----	480
Db	88298	CCTGTCTAGAGTCTCTGGAGGGTCTGCTGCCCTGTGTTGGGGCTCTCAGTGGGCTCC	88239
QY	481	-----	480
Db	88238	CCTCTGCCCTCCCCAGACTCTTCACTTATGTCAATGAGAAGCTGTCTCCAAGCCACCT	88179
QY	481	-----	480
Db	88178	ATGCAGCTTTCATCAACCTCTCAACAACTACCAGGGGCAACAGGCCATGGGAGCACT	88119
QY	481	-----	480
Db	88118	TCAGTCCCGAGAGCTGGCCGAGCAGGAGCGCTTCTCAGAGAGATCATGAAGACAGCAG	88059
QY	481	-----	480
Db	88058	TCATGAAGGAGCTCTACAGCTTTCCTCATCACAGAGTGAAGCACCCCGAGGCCCA	87999
QY	481	-----	480
Db	87998	GAGCCATCAGTCTCTCAGCGAAGCCAGGTGGCGGGGAGGGAAGTTAGGAGGC	87939
QY	481	-----	480
Db	87938	AGGTGAGGAGGGGTGGGACTCTGTGGAGGTCACTGTACATCTGGGAGGATGAGGAT	87879
QY	481	-----	480
Db	87878	GAGGCCAGGGGAGCCAAAGGAGGTTAGGAACCCCAACCCAGGAGCTGGCACATCCTCTG	87819
QY	481	-----	480
Db	87818	GCCTGCTGGCTTGGATATCACCCACCTTTTGACTTCATGTTAACTGCCTCATGCAGCCCC	87759
QY	481	-----	480
Db	87758	ACCTCTCTGTACAGTCTCAGGGTCTCTGCCAGGTGTGAGCCTCCCTCATATCCACACC	87699
QY	481	-----	480
Db	87698	CCACCCAGACAGCTCTCAGCCACCTCCGGATCCTGGAGTCAGCACCATGTTTCAGACA	87639
QY	481	-----	480
Db	87638	GGTAGAGTCGCTGACTCTACTCCCTCCCGCAATAAAGTCCAGGAATCGGGTGGCTG	87579
QY	481	-----	480
Db	87578	ACTCCACTTTTGGCTGGGAACAACCTTAGAGAAATCACAAAGGTTCAAGCGGAGTCTATC	87519
QY	481	-----	480
Db	87518	GGNAGATTGTGTTGAAGCCTCAGTAGAACCAATTTAGTCAACAAAAAATTTTGGCCACA	87459
QY	481	-----	480
Db	87458	TTCTTGGATGAGTTTGTGTAATCTGAGATCCTTCCAATTCAGAGCTGCTTGTCTAGGG	87399
QY	481	-----	480
Db	87398	TGGCTGTCGGGCTCTCGTCTGAATTTCTTGTCAAGCTGCTCCTTAGAATTTGGACATG	87339
QY	481	-----	480
Db	87338	TTTTTAGAAATTTAAAGGCACAGATATCTTTGAGAAATTTNNNNNNNNNNNNNNNN	87279
QY	481	-----	480
Db	87278	ATATATGAGAGACCCACATATCTATATCAAACTTATTTACTCACACTGCGAAACAGAGAA	87219
QY	481	-----	480
Db	87218	TTATTTCTAAACCCCTTAGAAAAATATACCACATATAACTCTAGCGCCAAAGTCTTACAG	87159
QY	481	-----	480
Db	87158	GCTCTACAACTAAGAGGCACACGCGGAGGAAATATATAACATCCACCATATTTACAAA	87099
QY	481	-----	480
Db	87098	GGCAGACACAGGCACAAAAATTTGCCTTGAGAACAGAGAAATTTGTGAGGTAAACACAACAC	87039
QY	481	-----	480
Db	87038	ACGGGAATATTGCCCATATACCAAGAGGCTTTCTTAGAACATGGAACGCCACCTTA	86979
QY	481	-----	480
Db	86978	AACACACTGGTGAACAGGAACACCAACCCAGGTTACCAGGCCCACTGCAAAAAGACAAG	86919
QY	481	-----	480
Db	86918	GCCAAAAATTTGCTAAAAAGCCCATTTGGATGCTTTAGGAAAGAACTTGCATCCAATTAACA	86859
QY	481	-----	480
Db	86858	AGTCAAAAATTAACGAGCGGAACATCCATAATGCCAGGATCAAAATTTCAACCATTAACA	86799
QY	481	-----	480
Db	86798	ATATTACCTTTAAATGTTAAATGGGCTAAATGCCCAATTTAAACACAAAGACTGCAAAAT	86739
QY	481	-----	480

Db	86738	GGATAGAGTAAGACCATCAGTGTGCTGCTGCTAGGAGACCATCTCAGCTGCAAGAC	86679	Db	85658	GAGCCTCAATCGATATGTTATATCTCTCTGGTGTATTCACACATATAGTCCTCTA	85599
Qy	481	-----	480	Qy	526	-----	525
Db	86678	GCACATAGGCTCAAAATAAAGGATGGAGGAAGATCTAACAAAGCAAA	86619	Db	85598	CTAAGGAAAAATAAAAAATGTGCTAGTCCACGATTTCTCAATCTCTTTTGACTCACACT	85539
Qy	481	-----	480	Qy	526	-----	525
Db	86618	AAAGCAGGGGTTGCAATCCAGTCTCTGATAAACACAGATGTTAAACCAACAAGATCAA	86559	Db	85538	ACTTTCATGGTAATAATAATTTTCATAGACCTCCACAGAAATTTTCCTCTATTTTTAT	85479
Qy	481	-----	480	Qy	526	-----	525
Db	86558	AGAGACAAAGAACCCACTACCTAATGTTAAAGGATCAATTCACAAAGAAGATCTAACT	86499	Db	85478	ATGATAAAACAATGATTTTATAGTAAGATTTTATTTTATTTTATTTTATTTTGAGACAGCATCT	85419
Qy	481	-----	480	Qy	526	-----	525
Db	86498	ATCCTAATATATATGACCCCATACAGGAGCACTCAGATTCATAAAGCAAGTCCCTAGA	86439	Db	85418	GGCTCTGTTGCCCTAGGCTGGAGTGAGTAGTGATGTCAGTCTACTGCAACCTCCATCT	85359
Qy	481	-----	480	Qy	526	-----	525
Db	86438	GACCTACAAAGAGACTTAGACTCCCAACAATAATAATGGGAGACTTTTAACACCCCACTG	86379	Db	85358	CCCGGCTCCAGCCATCTTCCACCTCGCTCTCCCAAGTAACCTGGGACTATAGCATGCA	85299
Qy	481	-----	480	Qy	526	-----	525
Db	86378	TCAATATTGGACAGATCAACGAGACAGAGGTTTAAACAAGGATATCCAGGACCTGAATCA	86319	Db	85298	CCACCATGCGCAGCTAATTTTTTATTTTGTAGAGACGGGCTTTTGCCATGTTGCCCA	85239
Qy	481	-----	480	Qy	526	-----	525
Db	86318	GCTCTGCAACAACAGACNCTAATAGACATCTACAGAACTCTCCACCTTAATCAACAGAA	86259	Db	85238	GGCTGCTCGGATCCTTAAGCCCAAGCAATCTGCCGCTCAGCCTCCCAAGTGTGGGA	85179
Qy	481	-----	480	Qy	526	-----	525
Db	86258	TATACATCTCTCAGACCACATCACACTTATTCAAAATTTGACCACACAATTTGGAAT	86199	Db	85178	TTACAGCGTAAGCCACCGTGACGACCATTTAGATTTCAATTAAGCACATTTAAATACAAA	85119
Qy	481	-----	480	Qy	526	-----	574
Db	86198	AAAGCACTCCTCAGCAATGTGAAGAACAAGAAATCACACAACCTGTCTCTCAGACCAC	86139	Db	85118	CTTTAATATATATGATAACAAAATCTTTTGTGATTCAAACTAAAGTTATTACGTAG	85059
Qy	481	-----	480	Qy	575	TCAGAAATAATGCCT	588
Db	86138	AGTGCAATCAATTAGAATCAGGTTAGGAATCTCAAACTGCAACTGCTNNNNNN	86079	Db	85058	GAATAAATTCCTTATAAATAAATAAATAATATGATAGTTTCATTAATGAACATTGAA	84999
Qy	481	-----	480	Qy	589	-----	588
Db	86078	NNNNNNNNNAATAGATATTACGGAAAGATCATTTGTAGAACCAGGTCAACCAAA	86019	Db	84998	ACATGGACTAAAATTTAGTATGTGTTTAGCATGAAGATTTAGAAATACCACAGCCT	84939
Qy	481	-----	480	Qy	589	-----	588
Db	86018	ATCTACTTTGACCCATAAGCAAGCCACAGAGTGTCAATCACCTTTAATCAGCACTATCA	85959	Db	84938	ACCAACATGCTGCCAGGATTTCCAAACCTGCTATGCTGACATGTATAGAAAACATAACA	84879
Qy	481	-----	480	Qy	589	-----	588
Db	85958	GCAGTAAGGCTTAGGCTTAAAGGAAGTTCAAAATACCGTAAACTAATAATAAAGCACCC	85899	Db	84878	GCAGCAGAACNNNNNNNNNNNNNNNNNNNNNGCTGATGCCGAGTTGCTGAGGCCAACAAT	84819
Qy	481	-----	525	Qy	589	-----	588
Db	85898	AGTAGCAGAAAAGTTTAAAAACAATGTTGTGCTTCATTAGTTTAAACCAAAAACCTGCT	85839	Db	84818	GACGCAAGAAGGAATTTAGATTTCTTCTCTTCTGAGCTGTGAGCAGAAGACCAGA	84759
Qy	526	-----	525	Qy	589	-----	588
Db	85838	ATTTTAAACTGCTATTTTAAAGCAAAAAAAGAGACATTAATCTCTAATCTTCAC	85779	Db	84758	GACCTCAGGGTAAGGGAAGCAGCCACCCCTACAGTGCCTCCAGACAACAGCCAGGCCAG	84699
Qy	526	-----	525	Qy	589	-----	588
Db	85778	AATAACCTATGAGGAAGGTATAATTACCATGTTTTTCACTTGAGGGAATGAAATGCAG	85719	Db	84698	CCTCTCAGAGATCCAAAGCTGGATGGGTGGGAAGCAGAGGCTCCAGGGGACCCAGGGA	84639
Qy	526	-----	525	Qy	589	-----	588
Db	85718	AAGTTAGTTAACTATTCAAGGTCACCTCAGCTAGTAGTAAGTGACCAAGCTACTTCTCCAA	85659	Db	84638	ACAAATAGGTGCGCAGATTGCGCAACATACTAAGCAAGAGGGGGCTTAGGAAAAGGTA	84579
Qy	526	-----	525	Qy	589	-----	588
Db				Db	84578	GCGGGGGACTCTGGCCACGCCCTACCCACTGGACAGGACTCACTGGGCGCCGACGCTT	84519

QY	589	-----	588	QY	589	-----	588
Db	84518	AATGAACCTCTGAGCAGCTGGCCCGGGGGCGGCACGGGCAGACAGACAGCTCGGT	84459	Db	83438	ACATACTCTTGGAGTTCTAGGCCCCCGCCACTGCTGTTCTCTCCATACACACAG	83379
QY	589	-----	588	QY	589	-----	588
Db	84458	GGCCACCCAGTACTGACAGCTCATTTGAAGCGGCGCATGAAGCGCTCCAGGTTGGCGGTGCT	84399	Db	83378	CTGATGCTCTCTGGAAAGCGCCACTTACTTGGCAGGAAGCAACACGACAAAAATAGAAC	83319
QY	589	-----	588	QY	589	-----	588
Db	84398	GACATCCCGCAGATGCTGGGGGCCACAGCACATAGTGGATCAGCTCCACCTGGGTGGGGTC	84339	Db	83318	ATTAAACCAACCAAGCTAAAGAACCCCTCACAGAGTCCATTTTCAACCCCCCTGGCGCTCCC	83259
QY	589	-----	588	QY	589	-----	588
Db	84338	AGCAGAGAGGTCAGCGAGTGTGAGCCGAGCGGGCGCCCGCCCTGCTCTCTCTCCC	84279	Db	83258	ACAGCTGAGAGGCCCATAGATTGTTACATCACAGGACTCTGTGCAGACAACCCCCAGTA	83199
QY	589	-----	588	QY	589	-----	588
Db	84278	CCAGCTCTGCCTCCCATACCTTGTGTGATACTGTTGAAGAGGCTCCAGTCTGTTGTCGTCA	84219	Db	83198	CCAACCCAGAGCCAGGTAGGCTTGTGTGTAGACCCAGAGAGAGATACCAATCACT	83139
QY	589	-----	588	QY	589	-----	626
Db	84218	GCTGGCCTCCAGGTCTTTGGCACTCACAGGTCCAGCCCCCTCAGCAGAGCCACAGTGG	84159	Db	83138	GCAGCTCAGCTTACAGGAAGCCGTATCTATAGAAAGAAAGAGACTACTACATCAAGG	83079
QY	589	-----	588	QY	627	-----	626
Db	84158	GCCCCAGCTGGTCAGGGTGTGGGATCTGCGGGTGGGAGAGTGTCTAGGGGGGCTGCTGAG	84099	Db	83078	AACACCCCATGGGACAAAAAGAAATCTGAACAACAGCCTTCATCCTAGATTGTCCCTCTGA	83019
QY	589	-----	588	QY	627	-----	626
Db	84098	GAATCCAGGAAAGCACAGGCTAGGGGAGAGGTTGGGCAAGGACTCTATGCTCGTG	84039	Db	83018	CAGCCTTACCCGAATGAGAGGAAGAAACCAACTCTGTGAATATGAAAAAACAAAGGCTC	82959
QY	589	-----	588	QY	627	-----	626
Db	84038	TTAGGAGGAGGTTAGGAGGGCAGGAGTGGGAGTAGAGGGTCTCTAGGGGTATAGCAG	83979	Db	82958	TTTAACACAGCAAGAAGAANTCCCTGATTTTACCTGAAAAAGAAATTCAGCAGGTTAGTTAT	82899
QY	589	-----	588	QY	627	-----	626
Db	83978	CTGGAGTATAGGCTCCCGAGTGTCTGAGACCCCTCTTTTGGGCTCTCTCTCTCTGGGA	83919	Db	82898	TAAGCTAATCAGGGGGCAGCAGAAAAAGCAAGCCAAATGCAAGGAAATCCAAAAGATA	82839
QY	589	-----	588	QY	627	-----	626
Db	83918	ACCCCTAATAGGCGCAGTCT	83859	Db	82838	CAAGAAGTGAAGGGAGAAATATTCAGGAAATAGATTAAATGAAAAAAAACAATCAAAATG	82779
QY	589	-----	588	QY	627	-----	626
Db	83858	CCCCCTGCGCTATCTTTGGGAATTCCTCCCATCAGCTGAGGCCCACTCTCTCTCTCTCT	83799	Db	82778	TCAGGAACATTTGGACACACTTACAGAAATGCAAAATGCTCTGGAAGTCTCAGCAATAA	82719
QY	589	-----	588	QY	627	-----	626
Db	83798	TGAGGACCCAGCAGCAGCAGCAGCCAGCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	83739	Db	82718	AATTGAACAAGTGAAGAAGAAATTCAGAGCTCAAAGACAAGGTCTTCGAATTAACCCA	82659
QY	589	-----	588	QY	627	-----	626
Db	83738	CAGAATCCACCACCTGCCACACTCAAAATAGATCTCTCTCTCTCTCTCTCTCTCTCTCT	83679	Db	82658	ATCCAATAATACAA	82599
QY	589	-----	588	QY	627	-----	626
Db	83678	GGTCCCTACCAGCTCATGACTTCTCTGTGNNNNNNNNNNNNNNNNNNNNNNNACTGCATGAC	83619	Db	82598	ATATGAACAAGCCCTCCAAGAAGTCTGGGATTTATGTTAAATGACCCACATCTAAGAATAAT	82539
QY	589	-----	588	QY	627	-----	626
Db	83618	TCAGCAGAGTAGCTATAATACTCATAGGTTTCACAACTCCATCCAGCTGATGGCTTCACCT	83559	Db	82538	CAGTGTCTCCTGAGGAAGAGAAGTCTAAAAGTTTGGAAATATATTTGGGGGAATAAT	82479
QY	589	-----	588	QY	627	-----	626
Db	83558	CCAGCCCCCAGCAGCAGCAGCAAGACTCCCTCTAAGGAGAGTCTGAGCTCAGACACTCC	83499	Db	82478	CAAGAAAAATTTTCCAGCCTTCTAGAGACCTAGACATCCGAAATACATAGATTTCATAG	82419
QY	589	-----	588	QY	627	-----	626
Db	83498	TAGTCCACCCACCTGATGGTCT	83439	Db	82418	ACAGATAATCACTCGGNN	82359
				QY	627	-----	626

Db	82358	AACAAAAAAGGCCACTACAAAAATGTAAAAAGCGGATAACAGACACACAACAAATAACAGGG	82299	Db	81278	CTCCTCAGGCAAGAGCTTATGCCCGGTGTGTTCGCAGAGAAATGATGCCAGAGCCGC	81219
Qy	627	-----	626	Qy	627	-----	626
Db	82298	ACAGCACTATGGAAGCATTAAGGAATTAACACCAACACGAGAGATAATCACCCAGGAAC	82239	Db	81218	GCGGATCTGCACCCTGCCGAAGCCACAAACCCTGGGTGAGAGGGCGGTCCCCCTGGGGTG	81159
Qy	627	-----	626	Qy	627	-----	626
Db	82238	CMAAATGAACCCACCGGGTAACCAAACTGAGCCGACACAAAGCAGCATCCCAACATGTAA	82179	Db	81158	GGAGTCCCCCACCCTACATCCTCTGTGGAAGAACTATGTGNNNNNNNNNNNNNNNN	81099
Qy	627	-----	626	Qy	627	-----	626
Db	82178	CCCCACTTAAGGCACCTAATACTACTAAAGGTAACACAGGGATACATGCAACACACCA	82119	Db	81098	NAACCCCATGTGTTCCCAACAGAGAATGGACAGTGTTCGGTAAGCCAGGCCCCCAT	81039
Qy	627	-----	626	Qy	627	-----	626
Db	82118	TACAAATTCACCCCAATACCAGACTTCATCCCACCATTACCACCATATCATGCATCCAA	82059	Db	81038	GTTACCTCCACTAAGCCAAACAGCAGAAGTGCCTTAACAACTTTTAATGAAGGGAGCA	80979
Qy	627	-----	626	Qy	627	-----	626
Db	82058	TCCCAATCCCCATGCCAAAACCTGAGAGTGAACACAAAACCTGTTGGAGAGATCATACATA	81999	Db	80978	CATCTATTATCATAGCTATATACGTAAACTTAATAGTAGAAGATTTGAATTAGACAGAAA	80919
Qy	627	-----	626	Qy	627	-----	626
Db	81998	AGTGCTGATGCATCAGGAAGTGCAGAGATGAATTAGAGTTCTTAGACTGGAAGATGAA	81939	Db	80918	AGTCATTTGATATTAATAATGTCAGAAAATCTAATATATATTGAGGATTNATGTTTAACTC	80859
Qy	627	-----	626	Qy	627	-----	626
Db	81938	GACATCCAGACAATACGGCTGCCTTCAGGGCTAAGAGATACAGGAAATGCTGCTGG	81879	Db	80858	AAATATATATGCATCTCGCATTTACTCCGTTTTATTATTAGCTGACTGCTATGTCCTCCTAGG	80799
Qy	627	-----	626	Qy	627	-----	626
Db	81878	GGCTTGAGGGGAGAGGAGCGGGCTCTATGGGTGAGGTAGGCCCAAGGAGCCGTTA	81819	Db	80798	CTTTAGCATCAAAAAGAAAACATCATATCAAAAGGAAGCTGACATAGTATTAAAGTCAACA	80739
Qy	627	-----	626	Qy	627	-----	626
Db	81818	TGCCCTTCACCTTTCTCGGCTACAGGAGGCGAAGTTTGGGACCTATGAACAAAC	81759	Db	80738	GAAGGAGCGAAAGCAAAATTGAAGCACACAGAAATGAAGCAGCAGGCCATTTTCAGAGAAA	80679
Qy	627	-----	626	Qy	627	-----	626
Db	81758	CATCTCTTGCAGACATGACCTTCATTCATGAGGGAACACACACTAGTGGAGATCTC	81699	Db	80678	GATCGGTAATCCNAAGCTATTCACAGTACAATGTATATGTTTGTGCTGACTGTGATTT	80619
Qy	627	-----	626	Qy	627	-----	626
Db	81698	ATCAACTTTGAGAAGATGTGAGTCCAGGAGAGCAGGCATTCACACTAAACATAGGTTG	81639	Db	80618	ATCTCTGTATATCAGTTAAATTTCTTCTCTCTAATATAAAGTTTTGCTGTAGTAGGA	80559
Qy	627	-----	626	Qy	627	-----	626
Db	81638	GAGGACATGACTGTGGCCTGGGAAGGGCAGGGCTTGGAGCGAGCTTAAACTTGTATGA	81579	Db	80558	ATTGGGAATTAATGCACTAAAGCCTCTGGACCTACTAATTCAAAATTTGGGTAATTGA	80499
Qy	627	-----	626	Qy	627	-----	626
Db	81578	ATAATATGAGGATGAATACTTACTGTGTAATAGCCCTGCCTTATTCCTACTGCACTGGG	81519	Db	80498	TGACTTTATATATAAATTAATAAATAAATAACTATAGAAACACTTAAGTTTAGAAAACACTT	80439
Qy	627	-----	626	Qy	627	-----	626
Db	81518	TCTGCCAGGTGCCAGCCTCAGACGTCCTACCATTCAAAGAGAGCCCTTCCAGCCCTCTT	81459	Db	80438	TTGAATCTTTATATATATTACATATACATAGTTATAAATTAACATAGAAGTTAATTACA	80379
Qy	627	-----	626	Qy	627	-----	626
Db	81458	CTCTCTAAGCCTTTCTCTCTGCGCTCTGCTTCTGTCTCTGCTGCTGCTGCTGCTGCTG	81399	Db	80378	ATCCATTTTATAATGACTTTTTTTCATTAATTACACTGGACTGTTTCTGATTTGAAAT	80319
Qy	627	-----	626	Qy	627	-----	626
Db	81398	CTCTGGGTGCTGAGCGGAAGTACACATGATGCCACATTAACCAAGATCTTACAGTCCC	81339	Db	80318	CCTCTACTAATCATGAGTTGAGGTTTAGTTTATTTATTGCTTTCCTGGACCACAGAGG	80259
Qy	627	-----	626	Qy	627	-----	626
Db	81338	TGATCCTTGTGTTTCAGAGGAGCTTGGCCCTCCTGCTGCTGCACAGGCGCAGCAGGCTT	81279	Db	80258	ATTCTCAATAAATAATTTATGAAATGATTTATTGATTGTGATATTTGACTGATTATAAGTAA	80199
Qy	627	-----	626	Qy	627	-----	626
Db	80198	ATGTTATAGTGAATCAGGTATACAAATTCCAATACAGCTGAATTTATCTATATTGTTGG	80139	Db	80198	ATGTTATAGTGAATCAGGTATACAAATTCCAATACAGCTGAATTTATCTATATTGTTGG	80139

QY	627	-----	626	668	-----	667
Db	80138	CATATTAAAGTTATTGAAGAGTGGGCTTTATTAATTTCTGGTACTGATTTCTTTTCACAAAAT	80079	79058	ATAAGCTGAAGAGCGATTATGACTTTATCCTCGTTGATAGTGGTCTCTCACCTTTGACGCT	78999
QY	627	-----	626	668	-----	667
Db	80078	TTATTTTGTGTTAATGGAGGTCCTTTGTGTGACCAGCTTGCAATATTGTGTGACTTAAGGA	80019	78998	TCCTGAAAAATGCTTTTGGCTCGGCCAATATACTGTTACACCTCTCGCCGACGAACGTG	78939
QY	627	-----	626	668	-----	667
Db	80018	CAGGTATTGATTAGTTGGGGACCTTTTGGTTAACAGTTAGGGTGCTGTAAAGATTATATA	79959	78938	TCGATTTCCACTCATCGCTTAAATACGTTGCCCGGCTTCCCTGAGTTGGTGAACACTCATTTT	78879
QY	627	-----	626	668	-----	667
Db	79958	CGGCTTTGCGTGATATAGTGTCATATTAAAGATGGAATGATATGAGTGTGGATATACT	79899	78878	CGGATGAAGGCTCGCAGTGCAGCTTGCAGCTTAACATTTGGTTTATGTCCAAGTTGAGTA	78819
QY	627	-----	626	668	-----	667
Db	79898	AGTCGAGAGTGATAGTGTAGTTAACACTGGTGTTCTCTCGGCTTTGTAAAGGATCTTGTA	79839	78818	ACAAGGCAGACCATTAAGTATTGCCATAGCCTAGCCTAAAGAAGTGTTCGGTGGGATATGC	78759
QY	627	-----	626	668	-----	667
Db	79838	ATATAGGTTTATATGATGCCCATTTTGATGTGGGTGAGTATACTCCCAATTACTGAGGAG	79779	78758	TTGATGCTCTTCTCCCTCGCCTTGACGGTTTGAACGCTCGCGGANGTCTTTTTCACACTGT	78699
QY	627	-----	626	668	-----	667
Db	79778	TTGTNNNNNNNNNNNNNNNCGTAGTTTCATCGACAAATGAGCAACAGAAATGCTC	79719	78698	TATTTTCAGCTAACCCCGCAGCATCTTGTGTAGTCTGATGCATTTGAAGAACGCGCAATT	78639
QY	627	-----	626	668	-----	667
Db	79718	AATGTTCTGACTGAACAAGTACAGTTGCAAAAAGGATGAGCTACACGCGAAGCAGTTTAC	79659	78638	TGCGCGGAAGATTTTGTCTAAAGCAGTTTGTACCCTATTTGAATTTATCAGATCTAACTGA	78579
QY	627	-----	626	668	-----	667
Db	79658	CAGGTCTATGCGAAGCGCACTGGCAAAATTGCCCTTACTGACTCGAGCGAAGCTTGACT	79599	78578	AGAGTAAGAATCCCATGTCAAGAATCAGACCCACATTTGGCGGACCTTNNATATCNTCAAT	78519
QY	627	-----	626	668	-----	667
Db	79598	ATGCCGTAAAGTGAAGAAAGGGTTATGTTTTCGATAAACGCCCTGCTGCTCTTT	79539	78518	ANTAAGCGGATTTTAAAGTTCTCCAGCTTCTTGGGATCCGAGTCCGGCCAGGTATTCAC	78459
QY	627	-----	626	668	-----	667
Db	79538	CAATGAAATATCCGATGTCAATTCAGAACATCATTTGACATATATGAACATCGCGAGTGC	79479	78458	AGTTTAAACTGGGCGCCAAGCCACATTTTGTGAAAGGGGAACCCCGCTTNNNNNNNN	78399
QY	627	-----	626	668	-----	667
Db	79478	CNAATACGGGGATCGCTACACCGAAGGAGTGTGATTTTCATCTCCAATCTTAAAGGG	79419	78398	NNNNNNNNNNNNAACAGGGCATTTGAGTTACTAAGAGCCTCTTAGGGGTAATACGTG	78339
QY	627	-----	626	668	-----	667
Db	79418	GTGTGTCAAAACTGTATCGAGCGTTTCTCTGGCGCATGCAATGCGTGTCAACCCTCATC	79359	78338	ATATGTTAGCACACTGGATATTGAAAAGCATCTGTACCACAGAGTACAACATAGATGTAC	78279
QY	627	-----	626	668	-----	667
Db	79358	FTCTTATGAGGATTAAAGGATTCGTGTTATTGACCTTTGATCCGCAATCTTCAGCAACGA	79299	78278	CTAATAAGGTCAACACAGACCCCTGAATTATGATGAAGTAGCAGACTAGCAATGGCAAAAG	78219
QY	627	-----	626	668	-----	667
Db	79298	TGTTTTTAAGCCATAACACTCTATTGGTATGCTGTAACGCAACATCTGCACAGGCTATGT	79239	78218	CCAAGTGCACACCAGAAGTGTATAGTATTGTGTACATTTGTGTGATTTCCCCAAGATT	78159
QY	627	-----	667	668	-----	667
Db	79238	TGCAGAAATGAAGCGGTGAAGAGCTGTAGAGGAGTTTATTGTTCTCTCTGTTGTACCTG	79179	78158	ATGCCATGTTTCAGTTATGTCTTTCTACACTTTGTACCAGGCTTATGTGAGTGTCTAAAC	78099
QY	668	-----	667	668	-----	667
Db	79178	GGGTTGACGTTATGCTCGTATGACGATGCGCTTTATTGATCCGATTGGAGAGAC	79119	78098	ATCTTTGAATTTATCTGTGATGAGGATTTGCTCAGTGGCAGGTATTAGTTTATGAGGATG	78039
QY	668	-----	667	668	-----	667
Db	79118	TGTGCAATGAGCATCTACGGGTACAGAACATCCATCCATGCTGCTCTGAAAGAAAATGTGATTG	79059	78038	GTGAAAGACCAGAAAGGAGTCACTCACAAATTTCTGTCCAACAATAAATAGAGTTGAC	77979
				668	-----	667

Db	77978	TGAGATGGCAGTGTGTTTTTCCAGCTGAAGTTGCTACCTGGCTGGGTGTGGTGCCTCAGC	77919	Db	76898	GGGANAAGAGGGGAGAAAAAGCAAGGCACCTTAGGGTCTATGAGTTTACTAGACGACGAGN	76839
Qy	668	-----	667	Qy	694	-----	693
Db	77918	TCGTAAAGCCTAGCACTTTGGGAGGCTGAGCGAGGTGGATCACTTGAGGTGAGAGTTGG	77859	Db	76938	TAGCCCCCTTATCTCTCTCTCATCACTCTGTGAGANTTATAANACAATGTGGTTGCTNT	76779
Qy	668	-----	667	Qy	694	-----	693
Db	77858	AGACCAGCCTGGCCACATAGTGAACCCCATCTCAACTAAATATACAAAAATTAGCTGG	77799	Db	76778	GATAAANACNACCAGTAATCAATATATGCTGCTNTAAATACCTTAATAAAAAAATTATTAAAA	76719
Qy	668	-----	667	Qy	694	-----	693
Db	77798	GTGTGTGACACGACACCTGTAGTTTCTATCTACTCTGGGAGGCTGAGGAAGAGAACTCTCT	77739	Db	76718	GTCAGTNCCTATCTCCCTAATAACACCAAGAATCATTTTCATTAGTAAATATTTTGACG	76659
Qy	668	-----	667	Qy	694	-----	693
Db	77738	GAACCTGGGAGGTAGAGTTGCAGTGAGCTGAGATCACACCCTGCGAGCCTGGCCACAT	77679	Db	76658	TACACTTAATGATNGACTACTATGATTTTAAAAATATAAGATACCATAATTAAGCAAT	76599
Qy	668	-----	667	Qy	694	-----	693
Db	77678	AGTGAACCCGCTCTCAATGAATACACAAAAATTAGCTGGGTGTGGTGACACGCACCTG	77619	Db	76598	GGGAAGGATGCTAATGATATGACCTTGTAAAGACACCACTCCAGCCTAGTTCTTCATTG	76539
Qy	668	-----	667	Qy	694	-----	693
Db	77618	TAGTTTCAGCTACTCGGGAGGCTGAGGAAGGAGAACTCTCTTGAGCCTGGGAGGTGGAGGT	77559	Db	76538	ATCAGCGCCTGGGTTAGTCTCCAGCTTCAAATGCACAGCCGTATCCTATGCTTAAAA	76479
Qy	668	-----	667	Qy	694	-----	693
Db	77558	TGCAGTGAGTGATGATCACACCACTGCACCTCTTAACCTGGGTGGCAGAGCGAGACTCTGT	77499	Db	76478	AATTCGATGGGCTTCACCTCAAGACTAGTTTACATCAGAATCTCTGGGATAGGACACAGAA	76419
Qy	694	-----	693	Qy	694	-----	693
Db	77498	CTCAAAATGAAATGGAGTTAAATTAATTAATTAATAAATAAAGTAAATGTAATA	77439	Db	76418	ATCAGTATACAAAC	76359
Qy	694	-----	693	Qy	694	-----	693
Db	77438	TAAATAATAAATAAAGTTGCTATCAACCTTATTTTAAOCCTAAGATCCTACAATCAA	77379	Db	76358	ACACACACACACACACAGGTGTATATATATATATATATATATATATATATATATATAT	76299
Qy	694	-----	693	Qy	694	-----	693
Db	77378	GACCTGGGCGAGTATTATCCATAGATCTGGCAGTAGTGGAACTCTGCATGTTACAGA	77319	Db	76298	ACTGAGAACCCAGCTCTGGATTTTGAGGATATTTGAGGTTACAGCTCTGTTTAAATGG	76239
Qy	694	-----	693	Qy	694	-----	693
Db	77318	CTTTATCATAAATGCTCTACCTCTGCCCCGTGAACCTAGCCAGCAACCTCAAAGTGCCAGAG	77259	Db	76238	AAAGTTTTCATTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG	76179
Qy	694	-----	693	Qy	694	-----	693
Db	77258	GGTTCCTGCCAATACGTTTCCCTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	77199	Db	76178	CGTTTAAGAGTTGCTATTCGAAAGACTCCCTCACCGGAAGCAGAAAGAAAGTG	76119
Qy	694	-----	693	Qy	694	-----	693
Db	77198	ACTTCTTAGAGACACAACATTTTAACTTAGCCCCAGGTATTACTATAATTGAAAAATAG	77139	Db	76118	TTAAAAAGTTTCGTTCTTTTTTCTCTGTAAGCCAGACATATCTAAAGACAGATTGTAACA	76059
Qy	694	-----	693	Qy	694	-----	693
Db	77138	TAAATATGAGCTAAATTTGTCATTAACAAAGACGATTTTATTTTATCAGTCCCATGCTT	77079	Db	76058	CTGGCAGATGTCAAAGAAAAGACTCAGAGATAGATTACATTAGAAAAGGGTTTACTTGCA	75999
Qy	694	-----	693	Qy	694	-----	693
Db	77078	TGGAGAGGAGATCCTGAAGGAACTAAAAGCAGGCTCGGAGCAAAAAGCCATGATGAA	77019	Db	75998	AAAGATGCGAGGAGTTAGACGGAAGGACTAGTTTGCCACCAGTACTTAAAGGGAAAAAA	75939
Qy	694	-----	693	Qy	694	-----	693
Db	77018	CTACTGNN	76959	Db	75938	AAATCCCTTAAAAATTACCAGGATTACCAGTTGACAGTAGTCTGTTTCATGTTGAAAAACA	75879
Qy	694	-----	693	Qy	694	-----	693
Db	76958	TTTTCCACTTTGGCTCCTATATTCCTTAAGCTACCTTCTGATATTGGATGGGTTGAGA	76899	Db	75878	GTTAACTTCTCAGATGGGTTATTATTACTCACAAGAGTCAGCCCAATTTAATGTTTACA	75819
Qy	694	-----	693	Qy	694	-----	693
				Db	75818	AAGGTCAGAGGTTTAGCAAGGGTAAATTTTTTAGGGGGATTTTAAACATGTTTAAAGGG	75759

QY	694	-----	693	-----	693
Db	75758	AATTCAGGGAATATATTTCAAGGGTTTAATTGGGTTTGGGAGGTTTCGGAATAAT	75699	-----	75699
QY	694	-----	693	-----	693
Db	75698	CCAGGGTGGATCCCTGGCAAGTTTTTTTGGGGGTAACCTTCCCTTTTATAAGGCTTTG	75639	-----	75639
QY	694	-----	693	-----	693
Db	75638	GCCCATATTTGGAGAACAGGCCAAAAGGCCTCAAGATATNTGGCTTTTAAAAATACC	75579	-----	75579
QY	694	-----	693	-----	693
Db	75578	CCTTTAAGCCACCAAGCTGGGTTCCAATCCTTGAAGGAAGTCTCCGGAAATNNNN	75519	-----	75519
QY	694	-----	693	-----	693
Db	75518	NNNNNNNNNNNTTATATTTTACTTAAACAACACCCTCAAATGTCCAAGCTTT	75459	-----	75459
QY	694	-----	693	-----	693
Db	75458	TCTGCCAATCTCCCGCGCGGTACAAATTTTCTTAAGAAATTTTAAACTTCAACCTCT	75399	-----	75399
QY	694	-----	693	-----	693
Db	75398	GCCATATAAATTTCCACCAGGAAGCAGCTGAGATTCCAAAGGGGGTTTGGAGCTTC	75339	-----	75339
QY	694	-----	693	-----	693
Db	75338	ATTTGAACAAGTATTTTACTTGAACAACCTGGGCTGCATCTGCCTTAAGTTTTTTCT	75279	-----	75279
QY	694	-----	693	-----	693
Db	75278	TTCCCCCTCGGCTTGGAAATGACAAAGTCTGGGGGCGTGGTTTCAAGACGCTTCT	75219	-----	75219
QY	694	-----	693	-----	693
Db	75218	CCCTCTTTATGTGATACTTACCTGTCTGTACCTGTGAACCACTGGTGAAGGCCGG	75159	-----	75159
QY	694	-----	693	-----	693
Db	75158	GGAGATCCAGAGCCCCAAGGCGCTCCCTGCTGCAGCCCCAGGATACCTGGGCTCACTC	75099	-----	75099
QY	694	-----	693	-----	693
Db	75098	ACCTCCCTTCTCTTGTCTGCAGGTTGGAGATGGCTGTGGGAATGCATCTCCTCAGAT	75039	-----	75039
QY	694	-----	693	-----	693
Db	75038	GAAGGTCTGTGCTGGCCCCAGTTTCTTTCTCTGCTCCTCTGGACTGCAGGCCCTCC	74979	-----	74979
QY	694	-----	693	-----	693
Db	74978	TTGGCCCCGTGACCTGAGGGGCTCTGTGGGCGTGGGAAGCTCTCTCCACAGACACAC	74919	-----	74919
QY	694	-----	693	-----	693
Db	74918	CCTTGGGTCTGTATAGGTGTTTACAGGGGGCCCTTGCTGCATGTGGTGCCCTGGGCCAGGC	74859	-----	74859
QY	694	-----	693	-----	693
Db	74858	CGTGCCAGGGCGCAGAGGCCTAAGGTGGCCTCCCTCTCGCCCCACTCCCTGACTCAAT	74799	-----	74799
QY	694	-----	693	-----	693
Db	74798	GGGCTTTTATTCCTTTTGGGAGGTAATTCATGCCACAGGTAGAGCCTGGGAGATGAGG	74739	-----	74739
QY	694	-----	693	-----	693
Db	74738	AATGTGGGTGGAGTTGGCCCTGAGGCCACGGGCTCTCTGTGGCCAGTCTGTGGGA	74679	-----	74679
QY	694	-----	693	-----	693
Db	74678	GCTCAGAGAGCGGAGGCCCTTCCCTGGAAAGTCAGAGGGGCCCCAGGCCATTTCTCAG	74619	-----	74619
QY	694	-----	693	-----	693
Db	74618	CTGGGGCTTTAAAGGAAGCAAGAGGGGATGAGAAGTGTGACGTGACGCCAGCATTTGGT	74559	-----	74559
QY	694	-----	693	-----	693
Db	74558	TGAGGAATGGTGGGAGAAAGAACTGGAAAGGTAGATTAGTTGGTGGTGGGAGGCGCTGC	74499	-----	74499
QY	694	-----	693	-----	693
Db	74498	ACTGGGAATAAATCCAGGGGCTTCACCATCCAGCAGCTCCCCCATGGTCCACCCTACT	74439	-----	74439
QY	694	-----	693	-----	693
Db	74438	GTGTGTCCAGCCCCGTGCTGTGGAGACTCTTACTGGCTTCTTCTCTCCGACGCGAA	74379	-----	74379
QY	694	-----	693	-----	693
Db	74378	GCCCCCTTCTCCCTCAGGGCCTTTCGACTTATCCCTTAGCCTGGAAGGGTCTTCTCTGG	74319	-----	74319
QY	694	-----	693	-----	693
Db	74318	CTGTGCTGGCAGGATCCTTCTCTGTTCTCATCTCAGCCAAATGCTGGTTCACAGACAGG	74259	-----	74259
QY	694	-----	693	-----	693
Db	74258	CCCCCTCCGCTCCTCATCCGAGCAGCCCTCCCTTTCTGCCACACGCTCTGCCTGG	74199	-----	74199
QY	694	-----	693	-----	693
Db	74198	TGTCTCTGTGATTTTCTTCAAAGCACTCTCGCCATGTGGAGTTGTTTCTTTCCTACT	74139	-----	74139
QY	694	-----	693	-----	693
Db	74138	TGCTTCTGTCTTGGTATCTCTCCCATCCCATGGAGATGTACTTCCCTCTCGGGG	74079	-----	74079
QY	694	-----	693	-----	693
Db	74078	CCCCCACCCTCCGCTTCTCCTTCTGCTCAGTCTGCTGGCTTGGTACNNNNNNNNNN	74019	-----	74019
QY	694	-----	693	-----	693
Db	74018	NNNNNNCAACTTTACAAGTTAGGAAGCCTTACATTTATGGTCCAGGGATGCCATTCAA	73959	-----	73959
QY	694	-----	693	-----	693
Db	73958	GCAGACCACATGATAAAGGTGCTCCTTTTGAAGTAAGCCCTGAATGTGGGGGCCCTGAAT	73899	-----	73899
QY	694	-----	693	-----	693
Db	73898	TTTATGCCAATTTCTGCCCATCTTATTTCCAAATAATTTCCCATTTCTGGTCATTTCTCT	73839	-----	73839
QY	694	-----	693	-----	693
Db	73838	CCATCTCAAGGCTAGTACTCTTGTTCAGGATACCATAATCTCTTCCCTTAGGTACCCCA	73779	-----	73779
QY	694	-----	693	-----	693
Db	73778	AGTCTCTCACAAGTTCCCTCTCTAATGTCCCCCAGGCAACTGTTCTTCCCATAGTAG	73719	-----	73719
QY	694	-----	693	-----	693
Db	73718	CCAAAGTAAATTTTATAAAATACAAATTTTCCAGAAATCACCCTCTATATAAACTATCACTA	73659	-----	73659
QY	694	-----	693	-----	693
Db	73658	GTCCACAGTACCCTCAGGATGAAGTTCAAATGTCTCTAGAAATCTCAACCCCTTCTGTCT	73599	-----	73599
QY	694	-----	693	-----	693

Db	73598	TCACGAGCTCATTTCTTACCACAAATCCAGTTCOCACCTCTGCTGTAAATAATAAACTTAA	73539	Db	72518	TTCTATATCTCCGCTGTGTCAAGACAAATGGTGTTCATTAAACCACCTTTTCCCATCTACG	72459
Qy	694	-----	693	Qy	694	-----	693
Db	73538	GTTTTCTCAAACTGTCTGTGCTTTTGTGCATCTGCTATTCCTGGTATTTCCCATGATCCCT	73479	Db	72458	TTTCAAACTAGAATGTTTTNN	72399
Qy	694	-----	693	Qy	694	-----	693
Db	73478	TAGTATTACCTGTTTAGCAATTTATACGCTGTACCTCTTTATTTGTATCCCCACCACCCC	73419	Db	72398	TTCCAAGAAGAGCGCTGAAAGTGTTCCTCAATAAAATGGATCTCCTCTCTTGGGCTGG	72339
Qy	694	-----	693	Qy	694	-----	693
Db	73418	ATCCACCTCCCTCTCGTTGTAAGTTTTGTGAGGAAAGATCCATGTTTACTTTGTTC	73359	Db	72338	AGACAAGAGCCCTTGGCACAAGTTTCGGGGACACAGAGGGGAGAGGACGCTGGG	72279
Qy	694	-----	693	Qy	694	-----	693
Db	73358	TTTTTGTATTTTACGTGCTTAGCAGTGCCTGGCATTTATATGTAGATTCAACAATATTTG	73299	Db	72278	TTTCCAAAAATTTGCCAAGTATTACAACATCAGTCGGCTTTTGGGCAAAAGTATCTTAACCT	72219
Qy	694	-----	693	Qy	694	-----	693
Db	73298	TTAAATTAATTAATGAATCAACAAGTTTTCATTAAACATTAATTTTAAATGTTTC	73239	Db	72218	TCTGAGCGCCAAATTTTTCATACCTTAAATAATCGGAAAGTTACAATAAATCTCTTGT	72159
Qy	694	-----	693	Qy	694	-----	693
Db	73238	TTTAAACATAACTCTGATAAGGTCAAAACATTAAGAAAGCATTTGTAAGGTAATAATGA	73179	Db	72158	GAAAAGCGCCATTTGGAGATAATTTAGAACCTCAGAGAATAATCGCTGTGCCTAGTAG	72099
Qy	694	-----	693	Qy	694	-----	693
Db	73178	GCCTTGGTACTGTCTCAGAAATGCCCTCTGTAAACAGAGATAATGGATTAGAGTTGG	73119	Db	72098	GACAAATGGTAACGTTGGAGGAAAGAGGAGTGCAAACCCAAAGTCAAGGACGTGA	72039
Qy	694	-----	693	Qy	694	-----	698
Db	73118	AAGTAAATTTTTTCAAAATGCGTTAACAAATTTGTTAAATGGTGAGACTTGGATATGC	73059	Db	72038	AGGATTTTCCATATTAGACTTGGCTTTTGGCCCTAATTTGGCAGAATGCAGAAAGCCAC	71979
Qy	694	-----	693	Qy	699	ACACACAGGAGGGGATGATTTGCCCGCCCTTACACATGTTGTCTCTCTCCTGGAT	758
Db	73058	CCCATCAATTTATTAATTTAGTGTACTTAAACACAGAGTCGGAGGACCCAAATAAATGAC	72999	Db	71978	ACACACGAGGGGCAATTTGGATTTTCCCGCCCTTAAGACATGTTGTCTCTCTCTGAAAC	71919
Qy	694	-----	693	Qy	759	CCTTGGTCCAGGTGCTTACCTGAGCTCAGGTGAATGTGGCAAGCAGAGCCCTCTCGTG	818
Db	72998	GGGATGGTCTTCGCCAACAATTCAGAAATATTAATGATGTAATGTTGCTATCAAGT	72939	Db	71918	CTTTGATCAGAGTGTCTTACTGAGCTCAGGTGAATGTGGCAAGCAGAGCCCTCTCGTG	71859
Qy	694	-----	693	Qy	819	GTGTAATGTGTGTGGCCCGCTGCTCTGTGTGACACAGGAGCCCTCACAATCCCTCCCT	878
Db	72938	CAAAAGATACAAATTAACAGTAAATAACTACATTTCCAGAAAGAACCCACTTGGGAAATA	72879	Db	71858	GTGTAATGTGTGTGGCCCGCTGCTGTCATGTCACACAGGAGACATCACAATCCCTCCCT	71799
Qy	694	-----	693	Qy	879	CCAGGTCTCTCTCATGTCTCCAGCCCTTATTTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	938
Db	72878	CTGCTTTTATACCTTTAAGCAATAATATTACTATTATTAATAAATAATGACTGAGCACTA	72819	Db	71798	CCAGGTCTCTCTCATGTCTCCAGCCCTTATTTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	71739
Qy	694	-----	693	Qy	939	GGAATTTGCTGTGCTTGGCTCCCAACAGGAGGAGCCCTTCCCTGGCAGCAGCTGTGCCA	998
Db	72818	TGTACAGGCATTAATGTGCTAATACTTATAAGTATTAGCCTTCTTAAAAATCTTTGAGG	72759	Db	71738	GGAATTTGCTGTGCTTGGCTCCCAACAGGAGGAGCCCTTCCCTGGCAGCAGCTGTGCCA	71679
Qy	694	-----	693	Qy	999	TCAAAGTTGGGATTAAGTCCCTATGACATCTGCCGGCCAGACCACTCAGTGTGACCC	1058
Db	72758	TAGGCATTTACTAATAATTTCTATTTATATGGCGGAGACGGAAGCTTAGAGGTGCTAAGC	72699	Db	71678	TCCAAGTTGGGATTAAG	71661
Qy	694	-----	693	Qy	1059	TGCAGTGCCTGTGACAGCCCTCCGTGAGAGAGGTGATGGCAGCGTTGGCCCGAGGAGATG	1118
Db	72698	AGTATGCCAAATTCACAAGCTAGTTGAGTGCAATAGGGGTATACGAGGTTAATTTGAC	72639	Db	71660	-----GTTGTGTGTGTGTGCGCGGTGGGACAGACCCGACA	71626
Qy	694	-----	693	Qy	1119	GCTGGACCAAGGGCAGGTG	1138
Db	72638	CCAATAGCTTTTATATACCATGCTAATTTGGGATAAGGAACCATATGTCAGCCCTTA	72579	Db	71625	TCGACCCCTGCT	71566
Qy	694	-----	693	Qy	1139	-----	1138
Db	72578	AGGCTGCCCTTATTCATCACTTTATTTGAATGTTGGTATGTTGTTATATATAGTACCGGAGC	72519	Db	71565	CCTGGCCAAAGTGGCAGCTGTACTCCTCAGGCTGTGTGTTCCAGGCTGTCTGGCTAGAT	71506
Qy	694	-----	693	Qy	1139	-----	1138
				Db	71505	CTGCCCTTACCTGCCCTCTTTTGTGTCAGGGGCTCCCACTGCAGCTTCAGCTCTTTG	71446



QY	1139	-----	1138	QY	1295	-----	1294
Db	71445	GGGATCCCTTCCAACATTACTGCAAAATAGCCGCTTCTCTCCCTGGGGTGGAGA	71386	Db	70365	TGACTCCCGAGCTACCCCTGTGTGTACTGAAGACAGAGAAGTTATGTCTCTTTTCTGATGC	70306
QY	1139	-----	1138	QY	1295	-----	1329
Db	71385	TCAGGCGCCAGCCTTCCCAAAAGCTCCAGTTCTTGGTCTTCTTTTCCAGTCCCTTAAT	71326	Db	70305	TTAATCCCTACTGGGTACATATATAGACACTTTAAGAAGTGTTTGAATGAATGAATGCCCA	70246
QY	1139	-----	1182	QY	1330	GGG-----	1332
Db	71325	GAACCTTTTGTGCGGGCAAGTACAACACTCAGTGTGTGAACCCCTGCCAGCTTGCCCTGGTT	71266	Db	70245	GAAGTCTGTGGATTTTCCCACTACATATATTTTAAATCCATCTTGACGGCTGGGA	70186
QY	1183	-----	1182	QY	1333	-----	1332
Db	71265	GAANAAGCCTTCGGGTGTAGAAAAGTTGTATTGGCTACCCTTTGGCCCCGAGGTAGGG	71206	Db	70185	TGCCTATAATCCAGCACTTTGGGAGGCCAAGACGGGTGGATCACTTGAGGTGAGGAGT	70126
QY	1183	-----	1182	QY	1333	-----	1332
Db	71205	TTTGGCGTTGGCCATPAGGCGATAGTTCTCTGGGTAGAAGGCTCATTTTCTCACGTG	71146	Db	70125	TCGAGACCAGCTTGCCCAACATTTGTGAACCCCGTTTCTACTAAAAATATAAAATCAGC	70066
QY	1183	-----	1197	QY	1333	-----	1359
Db	71145	TGTGAGATTGTGTCCTCCCTGAGATTATCCCTCCAAGTGGACGGGTGGCGCTTGGGT	71086	Db	70065	TGGGTGTGTGGCGCATCCCTGTATATCCAGCTACTTGGAGGCAGAGGCTGGAGATCG	70006
QY	1198	GGCCACATCTCTGGGCTC-----	1216	QY	1360	CTGGAGCC-----	1367
Db	71085	TTCATGTCTCAGGGTCTCCCATTTTCATGACTTATTGCTCTACTCTTTTCACAATCTTT	71026	Db	70005	CTTGAACCCCAACAGGCTGAGGCTGCAGTGAGCAAGATCGACCATTTGTACTCCAGCTGG	69946
QY	1217	-----	1216	QY	1368	-----	1367
Db	71025	TCTGTGTCTTCCCTCCGTTGTGATTTGTATGGTCTTCTCTTTTATTGGTGAAGTGG	70966	Db	69945	GTGACAGGAAGACTCTGTCTCAAAAACAAGAAATAAAATCCATCCTGCTTTCTTTATAC	69886
QY	1217	-----	1216	QY	1368	-----	1367
Db	70965	AATTCGGTCTGTTTCGAAGTCTGACTTCTCATTTGCTGTGTGTAATGAACATATCCTCT	70906	Db	69885	ATCCAAAAGAAATAACATAGATGGTGGTGGGATGTGGCTTCTGAAATCAGACTACTTGTG	69826
QY	1217	-----	1216	QY	1368	-----	1367
Db	70905	GTAATCTGTGTGTGTCTATTTCGGGCACACCCCTTTTACGCTTCCACTTTTGTGTG	70846	Db	69825	GTACAGTAGTCTTACTGTCTCCACCACCTGTTAATCAGATGTCTATGCGCAAACTATATA	69766
QY	1217	-----	1216	QY	1368	-----	1377
Db	70845	TCCTTGTGTGCGGTTTNNNNNNNNNNNNNNNNNGAACATAGTTTCATCAATCAGCCAT	70786	Db	69765	CCTATATATGCTCAGTTTCTTATCTCTAAAAATGAAATCCTTGAGTGTATCTTGATCAC	69706
QY	1217	-----	1216	QY	1378	TATCCACAGTGG-----	1425
Db	70785	AGAGAAGCCAAATGTAGCACCTAATGACATCTAAGATGATGTCACGACCTCCAGGAGCT	70726	Db	69705	TTTCAGAAAATTGGCCCTTTTGTACAGCAAAAGGCCCTTTCATTAATCTGGCTCCTACTTCT	69646
QY	1217	-----	1216	QY	1426	GGGGGATGTACACACCGCCAA-----	1446
Db	70725	TAAATCTAGTTATGTGCACACATGAAAATTAACAAATAAAAAAGGGAATGTA	70666	Db	69645	TCACCATCTCCCCACAGCCCAAGCCCAAGTACCTCCACTGCGCTGCAAAATCCCTTAATGTT	69586
QY	1217	-----	1216	QY	1447	-----	1446
Db	70665	CCAGTCAACTCAAACTCTATCCCCATGTCACTTCCACAGTATACAGAAGTGCCTACAC	70606	Db	69585	TCCTGTTTTCATACTCCTCTGTTCCAAGCTGTCTACCTAAACCATGCTTTCCCTGCATC	69526
QY	1217	-----	1260	QY	1447	-----	1446
Db	70605	CCCAAGGTCAAGTCAAGGTGCTCATGACTATGCTATTATAATACATGGCCTTCACCTATGCT	70546	Db	69525	TGCTGGATTATTCCTTCTTAATCCTTCATGCGCTGAGACTAGATGGCTCCTCTGCACAGAT	69466
QY	1261	GATCCACACAGCTGACCACTGGGGCCCACTGTG-----	1294	QY	1447	-----	1446
Db	70545	GATCCTGCCACCTGGACATCTCTTCCCTGTGACCTGGACCTTCTCAAGTCTC	70486	Db	69465	GCCTTCTCAATCCTTACCAGTTGAGCTTTGAGTCTGCGCTCTTAGACTTCTATCATTTATA	69406
QY	1295	-----	1294	QY	1447	-----	1446
Db	70485	ATAGAAATGCTGCTCTTCTTCCCTGTGTCACCCAGCTGTGATTGAGAGCTGCCCTTTG	70426	Db	69405	TTTGCCACCTTTATTATAGTTTCATCTTTCTTGCCAATTCCTTAATAGACTGAGATAC	69346
QY	1295	-----	1294	QY	1447	-----	1446
Db	70425	TGCTCTTTCCAAACCTTTATTAGGCGACTCATGACACTGTGCTGTAATTGCAATTTATT	70366	Db	69345	TTTACGGGTAGAGGCTGTGGCTTAGCATAGCAGCTGGCACATATAATATGTCTTGTCTGAATTA	69286

Db	69285	AGAATTAAATCCACAAATCAGAAAGCCCTTGTCACAAAGTTGTCACCAACTTAATC	69226	Db	68205	GTGGATGGTGTCTCAATGATCAGAATAGCGACAGAGATGTCAGTTGTCTCTCTGTGG	68146
Qy	1447	-----	1446	Qy	1447	-----	1446
Db	69225	AGAAGATGGCATTACACAAGATCTTTGATGACTACTNNNNNNNNNNNNNNNAAGG	69166	Db	68145	AGGTCTGGAGAGTTTGGAAATATGCTGAGGCTGCTTGGCAAGGATTTGGGAGGCACTCAG	68086
Qy	1447	-----	1446	Qy	1447	-----	1446
Db	69165	ACACAGAGACGAGGTTAAACGGACCTCAAGAGAAATACACCCTTAAGACCCAGCACATT	69106	Db	68085	CTGTGAGAGACATAGAGGTGGGAATTCATCAGCCAAATATTTATCGAGTCTCTCATTACA	68026
Qy	1447	-----	1446	Qy	1447	-----	1446
Db	69105	GATGCCAATCCACGTGTGTAACAAAAGGTACCCATAGATTCCACTAAACCTTTAATAGG	69046	Db	68025	CATCAGGGCTATGCTGTTATTGGACTGGCAGGTTTCAGGCTAGGCTGGAAAACTCTTCC	67966
Qy	1447	-----	1446	Qy	1447	-----	1446
Db	69045	ACAATGGCCACATTTATACAGATAAAGAACTGAGCACAGAAAGTTTAGGAGAGTGCCTC	68986	Db	67965	TGGAACGATTGGTTTCTGTGGGACAGAACCCAGATAAGCCTCAGCATTAGGSCATTGT	67906
Qy	1447	-----	1446	Qy	1447	-----	1446
Db	68985	AAAGCACAAATCATTAAATTATGACAGTGTCCCTAACCCAGATCCATCTGACAGGGGTC	68926	Db	67905	TTGNACTAGGCCTCATTCATCTCTGGGCTACCACAGGTGCTGGGGTCTGTCAGGATCAA	67846
Qy	1447	-----	1446	Qy	1447	-----	1446
Db	68925	ATTCTATAGCCACCGTTGCTCCATTGCCCCACAACATCACACTTTGAACGACAACCTAA	68866	Db	67845	CAGCCCTTGAGAGAGACTGACCCAGAGGACTACTAAAAAGGACACCTGCCAGGCCAGCC	67786
Qy	1447	-----	1446	Qy	1447	-----	1446
Db	68865	TCATGCTCTGTTACTATACAAAGCAGTCTAGATTAAATTCACCTGGAAATTAAGGGACCT	68806	Db	67785	TATTTCTACCATCTGCTTCTCTGTCACAAACCAAGGCCACGTCATTTACAGCAGAGACCTG	67726
Qy	1447	-----	1446	Qy	1447	-----	1446
Db	68805	CAAACTGCCATCTAGTTCCACTTCTCATAGATCTCACACTCCCTAAACAACCCCTAAGT	68746	Db	67725	CGTGTGAAGACCCTGCAGCTGCCCATCACAGGAGAGCCCAAGACTCACCTCCCAAGG	67666
Qy	1447	-----	1446	Qy	1447	-----	1480
Db	68745	GCTTGCTCCTCCTCTCCTTCATTGCCCTCTGCTGCTGAGGGTTGAGGGGTGGGAATTGGG	68686	Db	67665	GGACCCCTGGCACATGAAGATGCTGGTTCTCTCTGGGAGTGTGCTGCCCTGGCCACAGGATAG	67606
Qy	1447	-----	1446	Qy	1481	CAGTACTGGCTGGCCACCGAGCTGT	1505
Db	68685	ATATGCCCTCCAGGGTGTCTATACGCCCTCTTCGCAGATCGGATTTCCAAACCCACAGA	68626	Db	67605	AAGCGCAGGATGTGCACCCATGCTCTCTATTGAAATGTCTTTAGAAGCGGCTCCATG	67546
Qy	1447	-----	1446	Qy	1506	-----	1505
Db	68625	TTTTATAACGAAGACATGCTGACAAAGGCAGAAATAATCCATTAGCCCAATAATGAAA	68566	Db	67545	TGTAATTCTTTCCAGCATTTGGTTAGTATGGTGTATACCATGATGACTACTGTNNNN	67486
Qy	1447	-----	1446	Qy	1506	-----	1505
Db	68565	ATATATCAATACATATTATGCAAAAGATGCCTCATAACTTAGATGTCCATGTATGTGTG	68506	Db	67485	NNNNNNNNNNNNNNAAGAAAAATAAGATTCTTTATAGCACAGTTGCTTCTCGGCCAA	67426
Qy	1447	-----	1446	Qy	1506	-----	1505
Db	68505	TATACACACACACACACACACACACACACACACAAAAAGAGAGAGAGAGAGAGA	68446	Db	67425	GAACCTGCCCTTATGAGTGTAAAGTAAATAGCAGCTTTAAGAAAAATACCAATAGGCTAAT	67366
Qy	1447	-----	1446	Qy	1506	-----	1505
Db	68445	GAGAGAGAGATACATTATAGATAGATTTCAGGCAGCTTTCTCTCCCTGCTAGCCTGTT	68386	Db	67365	CTTACCAGAGTGGTTGTTCAAACCTCTGCAGACCATTAAGACTTCAGCCCAATAAGCAATC	67306
Qy	1447	-----	1446	Qy	1506	-----	1505
Db	68385	GTGGACCAAGAACTCTGCGCTCTCTTTCTGAGTACCCCGCCATTAGGTACTCACAT	68326	Db	67305	GAATTACAACCTACAAGTGAACAAATGCCAGAGAAATTACAAGACTTTATGCGGATNTAG	67246
Qy	1447	-----	1446	Qy	1506	-----	1505
Db	68325	GGGCTTTCCATCTTCAGACTTTCCCAAGAACCCACAGTGGGACCGACCAAGTTGGG	68266	Db	67245	AAAACTGGGAAAAAGACATTANACAAAAGGATATGGAACCTAAGAGACAGAAATGGTGCCC	67186
Qy	1447	-----	1446	Qy	1506	-----	1505
Db	68265	AATTGTGTAGGCTGGGTCTCTGAGAGCTGGGTAGGAGAGAGTGGAGGAGATGCATG	68206	Db	67185	TGAAGAGTAAATTAGAATTTCGTAATTAGATCCACCAAACTAATTTTATAAAAATAA	67126
Qy	1447	-----	1446	Qy	1506	-----	1505
Db	67125	AGCATAACTTTTAAAAATGTTTTTGAAAAATACTGAAATGAAATGAACTGACTTCTCACTGT	67066	Db	67125	AGCATAACTTTTAAAAATGTTTTTGAAAAATACTGAAATGAACTGACTTCTCACTGT	67066

[illegible]

Db	64905	AACTGCCTATATAGTATTGTCCCAAGATCTATACTATACATCTTAAATAAAAGTACTACTA	64846
Qy	1543	-----	1542
Db	64845	AAGTTCAAGTTTAAAGAAAAAACAACITTTTAGCAGGTTTGTGTAGTGCCAATGTAAA	64786
Qy	1543	-----	1542
Db	64785	AATATAGTAAGTTTCCATACCTCAAAATGAACCTAATTAGTCTATATCTTCTATAT	64726
Qy	1543	-----	1542
Db	64725	TCTCATTATCAAGAAAAAACACATAAATAATTTTTTAAATGCCAAACAAAAGTTAGAGTC	64666
Qy	1543	-----	1542
Db	64665	CACAACAGCTTTAATACTAATGATGAATTAATGCAATGCCAATCCATAATTTCTACATTTTA	64606
Qy	1543	-----	1542
Db	64605	TGAAGCTTCCTTTTAAAAAACAATAATTTTGTCTGAACCTAAATAATAAAACTGAAATCCTA	64546
Qy	1543	-----	1542
Db	64545	GAAATGAAAATTTTAAACAAAATCAATTTTCAAGATACCTTCTTATCTTTAAATTCAC	64486
Qy	1543	-----	1542
Db	64485	ACTGTGGTTAAAAAAAATAGTAATCATCTTTTAAGCAAAATCACCTTACATAAGTA	64426
Qy	1543	-----	1542
Db	64425	CAACAAAAAAGAAAGCTAGAAACTTAAGTTAGGCAGTTCAAAAAATTAGCATGATGAG	64366
Qy	1543	-----	1542
Db	64365	TACAAATCAGAAGTCTCAGTAATATCAATTTCTCCATTGGAATTAACCCATTTCTGGATGAT	64306
Qy	1543	-----	1542
Db	64305	CAGCAATAACAGTATTTCTACTACTGCGAGGATGAAGTATCACTGACTTCTTCTATTT	64246
Qy	1543	-----	1542
Db	64245	TCAATACTTTTGCTCTTGAGATACACTTGTGGAAAAAGGTCATCTTGGCTTGAATCT	64186
Qy	1543	-----	1542
Db	64185	TCTTACTTGTGGTCCGTGGCTGCTATTACATTTGCTAGATTAAATAGGATTATCTCTG	64126
Qy	1543	-----	1542
Db	64125	GAGCAGCAGTAGTGTCTATCTGGCACATCAATAGTCTGTATCAAAATTACCAGTTTCTT	64066
Qy	1543	-----	1542
Db	64065	CAATAATAACCTTCTTGAGTGGTTTCTAAAAACAATTAAAAATCAATTCCTTAAATCACAAT	64006
Qy	1543	-----	1542
Db	64005	ATTAAAGGTTTCTGATTTAGGGTCACAAGTTTAAAGCGTGCAATGGTCTTACAGCTAAT	63946
Qy	1543	-----	1542
Db	63945	ATCCAGTGATTAGTAATCAATTTGGTGGCTAGACACCTTAGAAGTCTGAGGATAC	63886
Qy	1543	-----	1542
Db	63885	AAAGATTAAAGGTTTCCAAAGCACTATCCAGGTAGCTCGAACAACGGGAGGGCGCTTG	63826
Qy	1543	-----	1542
Db	63825	TATCGTAAATATTTTAAGGCCATGTCTATGTTTAGAGGTGCAAGCCCAACCGCTAGGACACG	63766
Qy	1543	-----	1542
Db	63765	GGAGGGTGTNTNN	63706
Qy	1543	-----	1549
Db	63705	AACAAGACACAACGTACCAGAATCTCTGGGACACATTTTAAAGCAGTGTGTAGAGGAAA	63646
Qy	1550	TTCAATTAAAGTGGGGCCCACTCAAGGAGCAGAGAATCTCAA	1593
Db	63645	TTTATAACACTAAATGCCCAACAGAGAAAACCAAGAAAAGATCTAAAAATTGACACCCTAAC	63586
Qy	1594	-----	1593
Db	63585	ATCACAATTAAGAACTAGAGAAGCAAGCAACAANAATTCAAAACCTAGCAGAAGCA	63526
Qy	1594	-----	1593
Db	63525	AGAAGTAATGATGATCAGAGCAGAACTGAAAGTGATAGACACAAAAAACCCCTTCAAAA	63466
Qy	1594	-----	1593
Db	63465	CATCAATGAATCCAGGAGCTGGTTTTTTTGAAGAAGATCATCAAAAATTGATAGACCCTAGC	63406
Qy	1594	-----	1593
Db	63405	AAGACTAATAAGAAAGAAAGAGAGAAGAAATCAAAATATACACAATACAAAATGATACGAG	63346
Qy	1594	-----	1593
Db	63345	AGCTATCACCCTGACACCACAGAAATACAAACGATAATTCAGAGAATACTACAAACACC	63286
Qy	1594	-----	1593
Db	63285	TCTACGCAATAAATACTAGAAAATGTAGAAGAGATGTAAAAATTCCTGGCACATACACCC	63226
Qy	1594	-----	1593
Db	63225	TCCCAAGACACCAGGAAGATTCAATCTCTGAATAGACCAATAACAGGCTCTGAAATT	63166
Qy	1594	-----	1593
Db	63165	CAGCAATAATAGCTTACCAACCAAAACAAGTCCAGGACCAAGCGATTTCACAGCTGAAT	63106
Qy	1594	-----	1593
Db	63105	TCTACCAGGTTACAAAGAGGAGCTGGTACCATTCTCTGAAACTATTCCTCAATCAATAG	63046
Qy	1594	-----	1593
Db	63045	AAAAGAGGAATCCTCCCTAACTCATTTTTATGAGGCCAGCAACATCCTGATACCAAGC	62986
Qy	1594	-----	1593
Db	62985	CTGGCAAGACACAACAAAAAAGAGAATTTTAGACCAATATCCTCTGATGAACATCAAT	62926
Qy	1594	-----	1593
Db	62925	GTGAAAATCCTCAATAAATACTGTGGCAACCGAATCCAGTAGCACACAAAAAACCTTTATC	62866
Qy	1594	-----	1593
Db	62865	CACCAGCATCAAGCTGGCTTCATCCCGAGGAAGAAAGGCTGCTTCAATATATGCAATCA	62806
Qy	1594	-----	1593
Db	62805	ATAACGTAATCCATCACATAAACAGAACCAACAAAAAACCATGTTTATCCCAATA	62746
Qy	1594	-----	1593
Db	62745	GATGCAAAAAGGCCCTTGACAAAATTCACAGGTGCTTCATGTCTAAAAAACACTCAATAA	62686

QY	1594	-----	1593	QY	1594	-----	1593
Db	62685	CTAGGTATTGATGGAATGTTCTCAAATAATAAGAGCTATTATTATGACAAACCCACAGCC	62626	Db	61605	TGGCAACAAATTTGTGTTTCCCAAAATTTAAGCCAAGCCCCCTTTGTGCCCAACCTTTTTA	61546
QY	1594	-----	1593	QY	1594	-----	1593
Db	62625	AATATCATACTGAATGGGCAAAACTGGAAGCATTCCTTTTGAAAAACCAGCACAGACAA	62566	Db	61545	GGCAAAAGGGAGAGAGAAATTTGTGTTTAANGAAATGCAAAATCCNTGCTCCCTTCAA	61486
QY	1594	-----	1593	QY	1594	-----	1593
Db	62565	GGATGCCCTCTCTACCACTCCTATTTCACACAATGTCGGAAGTTCTGGCCAGGGCAATC	62506	Db	61485	TTACTTTTTCANTCAAAAAGTTGCCAAGAGGGCANAGANATATTGACACAGGGGAANGG	61426
QY	1594	-----	1593	QY	1594	-----	1593
Db	62505	AGGCAAGAGAAATAAAGGTATTCAATTAGGAACGAGGAAGTCAAAATTTGTGTCT	62446	Db	61425	ACCAAAAGATNNTGACAATTTGAANGAGGGGACAGTGTGAAGAGGGAGCATGGCAGGTGTAT	61366
QY	1594	-----	1593	QY	1594	-----	1593
Db	62445	TTGCAGATGACATGATTGTATATTAGAAAACCCCATCGTCTCAGCCCCAAAATCTCCTTA	62386	Db	61365	AACGGTCTGTGCTGGGTGGGTGTCGGAAGGGCNGCGCCTNTGAGAGCTCTCTCCAGCA	61306
QY	1594	-----	1593	QY	1594	-----	1593
Db	62385	AGCTGATAGGCAACTTCAGCAAAAGTCTCAGGATACAAAATCAATGTGCAAAATCACAA	62326	Db	61305	CCAGCACCACTTTGGCATGTTCTTCCAGCCGCATGGTCTTTGCCTCCACATCCTCGAGAA	61246
QY	1594	-----	1593	QY	1594	-----	1593
Db	62325	CATTCTATACACCTTAACAGACAAGCAGAGACAAATCATGAGTGAACCTCCCATTTA	62266	Db	61245	CAGGCCACATCCCATGCTCAACTCATGATGTTCCAGCTTTAGACCCCTCTCATCTACCTCG	61186
QY	1594	-----	1593	QY	1594	-----	1593
Db	62265	CAATTGCTACAAGAGGAATATACAAATTTGCTACAAAGAGAAATAACATACTAGGAATCC	62206	Db	61185	TTCAITTCAGCCCTGAGCCCATGAGGCCACAGGGCCACAGACCACAGCCCTTCTCCACCT	61126
QY	1594	-----	1593	QY	1594	-----	1623
Db	62205	AATTCTCTCAAGGAGAACTACAACCCTGCTCAAGGAATAAAGAGGACACAACAA	62146	Db	61125	CGGACTTTGGTCCACTCTCTCAGCCCTTCCCTACCTTCCATGATCTCGCTCCCCACAG	61066
QY	1594	-----	1593	QY	1624	CAACTGGCCATCAGCCGCTTAGCCACACACTGGGAGCGGTGCTTCAAAAGTCCGGAA	1683
Db	62145	ATGGAAGATAATTCATGCTCATGGATAGGAAGATCAATATTGTGAAAATGCCATACT	62086	Db	61065	CTAGTCCCGCCCGCTGATGCCATCTCTCCCTGGTCTCCACACTGAGCCCTGAAG	61006
QY	1594	-----	1593	QY	1684	GTGTACTC-----CGCCCTCGAGAGGCTGCTGGATCCCTCATGGAAACCACCGGTAT	1736
Db	62085	GCCCAAAGTAATTTATAGAAATCAATGCGCATCCCATCAAGCTACCAATAAATTTCTTCA	62026	Db	61005	TCACTGGTCTCACTGAACTCTCTGCTGCTTATGGTTTCACTTCTCACACACACCCAG	60946
QY	1594	-----	1593	QY	1737	ACGGACTGGCCCTCGCCAGCTCTCCCTCTGCTCATGCCCTTCATGCTTCTATGCTTAC	1785
Db	62025	CAGAAATGGAAAAAATACTTTAAAGTTTCATATGGAACCAAAAAAGAGCCACATTTGCC	61966	Db	60945	GGCTATGGTCCCACTGCCAGCTGTCTATAGCCCAAGCATCTCTTACCTGCCTCTCTTAC	60886
QY	1594	-----	1593	QY	1786	-----	1785
Db	61965	AAGACAATCCTAAGGAATAAGAACAAAGCTGGAGGCATCAGGCTACCTGACCTCAAACTA	61906	Db	60885	AGGCCCTCTGCTCTGGTCCCTACTCTCTCTCCACATCACTTCTCTGGACGAATGGCCCC	60826
QY	1594	-----	1593	QY	1786	-----	1785
Db	61905	TACTAGAGACTACAATAACCGAAACAGCATGGTACTGGTACCACAAACAGAGATATAGAC	61846	Db	60825	TGCCCTCCCAACCCCAAGCAGCAGCCTTGATGATACGGTTGAAGTCTGCTGTGTCAC	60766
QY	1594	-----	1593	QY	1786	-----	1785
Db	61845	CAATGGAACAGACAGAGCCCTCAGAAATAACACCACACATCTAAACCATCTGATCTTT	61786	Db	60765	ACGAGGAAATGACAGTTGTCTTCTCGCAGGATGATGGTGGCTGCCCGGGGTGCATCAT	60706
QY	1594	-----	1593	QY	1786	-----	1833
Db	61785	GACAAACCTGACAAAAACAAGAAATGGGAAAAGGATTCCTATTTAATAAATGGTCTGG	61726	Db	60705	CACCAGAGCCAGCTGTCCAAATCATCTCCCTCATGCAGGGTGGTCAACCAGCCCTGCGAC	60646
QY	1594	-----	1593	QY	1834	-----	1833
Db	61725	GAACCTGGCTAGCCATATGTAGAAAGCTGAAACTGGATCCCTTCTGATGATCGGTGNN	61666	Db	60645	CCAGGCTCAGTCTCAGCCCGCCCTTGCGCCCTCGCCGCCAGCTCTTGCCAGGACA	60586
QY	1594	-----	1593	QY	1834	-----	1833
Db	61665	NNNNNNNNNNNNNNNNAAAAACACCTTTGGGGGAAAAATCTTTTAAAAATATCTGAAAT	61606	Db	60585	GACCCACGGCAGGAGAACAAACCCACAGGAGACACAGGGGTGAGCAGTAGATCAACA	60526
				QY	1834	-----	1833

Db	60525	AAGCACTGCCATGAGGACATGACACGAGGAGAGATTAGACCCAGGGCACTGGGGTGG	60466	Db	59494	TTTGGTGGTTTCAAAATTGGGGACATTTTACCCCAATTTACAATTTATAGGGATAAAT	59435
Qy	1834	AGTGGAGAATCTCATCAACTTTGAGAAGATGAGAATGATGCCAGAGCCGCGGGATGCT	1893	Qy	2118	-----	2117
Db	60465	GGAGGAGGAGGGCTCACCCTGCCATGGGTACACCGTTGACAGATCCCTTCCAGATAAT	60406	Db	59434	AATGGGAAGGGGAAATTTAAACCCCTGCCAATTAATGATGNTCGTGGTAATTTGGAC	59375
Qy	1894	GCACCA-----	1899	Qy	2118	-----	2117
Db	60405	GTACCAGAAGTGCCCTTGTCCCCCTGGCTGAACACTGACAGAAGCATACCTCAGACCGG	60346	Db	59374	TGNTAAATGATGCAGTTCNTCNTAGCATCATGGGCTTTACAAATTTGCCCTGTTTTTGC	59315
Qy	1900	-----CTGCGGAAGCCACAACCTGTGCC	1923	Qy	2118	-----	2117
Db	60345	GCCCTCTCGGACCTACCATTCCTTACACATCCTTCTGCCCATGTCCAGGCCCTGTGCC	60286	Db	59314	AGTGGCTGGTACTGGTTGTTTCTTCCATGTTTAGTGCTTCCCTTCAGAAGCTCTGTGAAG	59255
Qy	1924	TCCTCTACCACTCAGAAAGCGAGTTTCCCACTCCAC-	1960	Qy	2118	-----	2117
Db	60285	TGGCTTCTATGCCCTGCTGACTTACACACGGTCCCTGCCCTGCTGTGTGTTCAAGA	60226	Db	59254	GCAAGCCGGGTGTGACACAATCTGTGTCAGCATTTGCTTGTCTGTAAAGGATTTTATTCT	59195
Qy	1961	-----	1960	Qy	2118	-----	2117
Db	60225	GCAGAACAGCGCTAATCTCGCTTACCTGTGTGTGGTAGATAGGAGAGTCGGTGGCGA	60166	Db	59194	CTTCACTTAGGAAGCTTAGTTTGGCTAGATATGAAATCTGGGTTGAAATCTTTTCA	59135
Qy	1961	-----	1960	Qy	2118	-----	2117
Db	60165	CAAGTTCAATGCGAGACGCCAGGCTTTTGTAGGGTGTGTTAGGTCCAAAGACACA	60106	Db	59134	TTAAGAATGTGAACATTTGCCCTACTGTCTTGTGCTTGTAGGGTTTCTGTGAGAGA	59075
Qy	1961	-----	1960	Qy	2118	-----	2117
Db	60105	AGTCTGGGGACAAAGATGTGCCAGGTCAAGTGTTCAGGATTCAGCAGGAGACAAA	60046	Db	59074	TCGTCTTACTGTAGTGGGCTTCCCTCTGTGGATAACTCGACCTTTCTCTGACTGCC	59015
Qy	1961	-----	1960	Qy	2118	-----	2117
Db	60045	GCAAGTGGAAAAATGGCTGAGAGAGCGGGAAGATTTCAGACAGGGCAGCGCGGG	59986	Db	59014	CTTAACACACTTTTCCCTTCATTTCAACCTTGGTAACTGTACAATTTTGTCTTGGGTT	58955
Qy	1961	-----	1960	Qy	2118	-----	2117
Db	59985	GCAAGAAATCAGACTGAAAAATTTCCAGCCATAGATGGAAGTGGAGAAATGCCCTTGCC	59926	Db	58954	GCTCTTCGAGGAGTATCTTTGTGGCAATCTCTGTATTTTGTGAATTTGAATGTGGCC	58895
Qy	1961	-----	1960	Qy	2118	-----	2117
Db	59925	CAGCAGTTGAGTTTCAGGAAAGTCACAGGAAGAGATGCCTGTACGGGCGAGGCT	59866	Db	58894	TGCTTCTAGTGTGGGAAGTTCTCTGGATATATCTCTGAAGTGTGTTTCCCAATGTG	58835
Qy	1961	-----GAGACAGCAGGTGGGAGGATTTCCATGCTCGAGAGCAGTCCCTGAG	2010	Qy	2118	-----	2117
Db	59865	GGGAGGGCAGAGCTGACCGAGTTGGAGAGGTGGGCCACACAGCCTTG	59820	Db	58834	GTTCATTCCTCCCATCCTTTTCAGGTACACCAATCAATGTAATTTGCTCTTTTCACA	58775
Qy	2011	CACCCGAGTCCAGCCAGCACCTGGGCTTATGTCCAGCAGCTGAAGTCAATTCACRACCA	2070	Qy	2118	-----	2117
Db	59819	-----ATGTGCAGCAGCTCCTCAAGATTA	59795	Db	58774	TAGTCCCAATTTCTTGGAGGCTTGTGTTGTTTCTTTTACTCTTTTCTTAACCTGT	58715
Qy	2071	GCGGAACTCTCCGCTCTCCGAGAGCTGGAGCCATGAGGAGG-	2117	Qy	2118	-----	2117
Db	59794	GCTCCAGCTCTTCATCCGTGCGCTTGACTTGGCTGCAAGACAGGAGGAATGGAGCACA	59735	Db	58714	CTTGTGCTTTTATTTCAATTAATTTGATCTTCAATCACTGATACCTTTCTTCCACTTAT	58655
Qy	2118	-----	2117	Qy	2118	-----CTGGAGCTGGAGCTGGAGCAGCTTCGAGCCGGGAAGCAGGCTGTGCCGGG	2172
Db	59734	CTGTGAAGTGTGGCCCGTTTCCAGTGTCCAGGGAAGCACTTCCCTACCAACCAAGCGAATG	59675	Db	58654	CGAATCAGCTACTGAAGCTTGTGCATCATCAGCAAGTTCTCATGCCATGGTTTTCAATT	58595
Qy	2118	-----	2117	Qy	2173	CCA- 	2175
Db	59674	CTTGTGCAAGAGNGTGCTTTCAGCAAGTGGCAGTTTATCAACAAGCAACTAAGCCTT	59615	Db	58594	CCATAGCTCAATTTAAGGCTCTCTCGACTGTTTATTTAGTTAGTCAATTCGTCTAATCT	58535
Qy	2118	-----	2117	Qy	2176	-----	2175
Db	59614	TTACCTCATTCGCCACACATGTCCAATCGCTTTTGTATTAACAATNNNNNNNNNNNN	59555	Db	58534	TTTTTCAAGTTTTTAGTTTCCATTATGATGAGTTCGAACATCCTCCTTTAGCTGGAGAA	58475
Qy	2118	-----	2117	Qy	2176	-----	2175
Db	59554	NNNNAAACGCACAACTGGATGGGGCCTTTAACCTCTTATCCAAAAATTTGCAAGCC	59495	Db	58474	GTTTGTATTACGACCTTCTGAAGCCTACTTCTGTCAACTTGTCAAAAGTCATTCTCGTC	58415
Qy	2118	-----	2117	Qy	2176	-----	2175
				Db	58414	CAGCTTAGTTCCATTTGCTGGTGAGGAGCTGTGTTCCCTTTTGGAAAGAAATAGGTGCTCTGA	58355

QY	2176	-----	2175	QY	2176	-----	2175
Db	58354	TTTTAGAAATTTTCATCTTTTGTGCTGGTTTCTCCCACTTTTGTGGTTAAATCTCCC	58295	Db	57274	CCCCCAGCACATAAATCTATGCCCCTCCGGAAATTTCTGGCTCCTGCCACCAGACGGT	57215
QY	2176	-----	2175	QY	2176	-----	2175
Db	58294	TTTGTCTTTGATGTTGGTACCTCAGTTGGAAATGTAGAAATCACCCCTTCTCTCGCGTT	58235	Db	57214	GGAAACTGCTGATAGAGTCCACCCGCAATAGCATGGATGCCACTAATAAAGCGATGCT	57155
QY	2176	-----	2175	QY	2176	-----	2175
Db	58234	GATCAGCTGGAGCTGCAGATTTGGAGCTGTGCCTATTTCGGCCATCTTGGACGCCCT	58175	Db	57154	GGAAATCTGTGCGAGCAGAGATGATGAGCGTTTCTGACGGTGTATGCGTCTGCCCTTATT	57095
QY	2176	-----	2175	QY	2176	-----	2175
Db	58174	AACTCGTAAAGGAAATGTTGAAATGCTTACTTGGGCGACTTTTTTGTTTTTTTTTTTTA	58115	Db	57094	CCTCGGATGATCCTTGCTGTTTTCAGTTGGGGCGACTACCGCTGATCGGTACCTTCAT	57035
QY	2176	-----	2175	QY	2176	-----	2175
Db	58114	GAATCTTTAAAAAATCTTCCCTAGGTTTACTGATGATAGGGGAAATTTAGCAGCGTTT	58055	Db	57034	TCCGTTTACGGGTGACCAGTCCGACATCTATGAAGTCTTTAACGTGGCAGGTTTCTCTT	56975
QY	2176	-----	2175	QY	2176	-----	2175
Db	58054	AGAGTTTGGGATAACTTTTAAAGTGAGTAATTTAAATTAACACTTTCATGTAAATATT	57995	Db	56974	TGGTCTTTATGCTGCTGGTGATGTTCTGGACATGCAATCCGTCGGTGTGTACAGCCAGTT	56915
QY	2176	-----	2175	QY	2176	-----	2175
Db	57994	TCTGCCATTCTCTTATATTAAAGGTTTCAAGCAGTTTACATTTTATAGAAATTTAA	57935	Db	56914	ACGTCGCCGCTATGTGCTGGTGGCAAGCTCCGATGGCACCAGCAAAACCGCAACCTTCAA	56855
QY	2176	-----	2175	QY	2176	-----	2175
Db	57934	TGCTGTGTATTTTATTACTGTCTTTTCTGAAGTTGGGATAAACACCCCTTGCATCAAG	57875	Db	56854	GATGAAGACTTCGAAGCCGGAATGTACCAATCCGAAAGTGCACACTAACATCTACGT	56795
QY	2176	-----	2175	QY	2176	-----	2175
Db	57874	TAAATTATGAATATACATACAGAAAAAGTACGACAGAAATTAATTTTAGAGAATAAT	57815	Db	56794	TAACCGTATTAAGTCTGTGTTGATTAACGGTTCCGGCAGCCCTTCTACTCGCTTTACTAA	56735
QY	2176	-----	2175	QY	2176	-----	2175
Db	57814	TACAAAGTGAACACCCATGAATCACCGAGTCAGAAATTAAGACATCACCCCTAAAAAA	57755	Db	56734	TGCTCTGTGTAGACAAATCACTGTTACCTGCTCTCTGAACATAACAATTGGTCAGATTGC	56675
QY	2176	-----	2175	QY	2176	-----	2175
Db	57754	CCTCTCTATGTACCCCTGACTGATCAAGATCCTTCTCCTGCCCTCTTAAACTGTTATGCA	57695	Db	56674	CCTGTGTTTCTCAAAGCCGCGATAAAGGCACTGAGATCGCAATTTGAGACGGAATCAA	56615
QY	2176	-----	2175	QY	2176	-----	2175
Db	57694	TAGACGATCCTTTGCATTAACAGTTTCTTCATTAGAAATAACAATTTCATAGGAAGTCA	57635	Db	56614	TATTGAAGCCGCTCCTGAGCTGATCCCGTGTATCAACCACGAAATGAAGAAATACACCT	56555
QY	2176	-----	2175	QY	2176	-----	2175
Db	57634	GAGGAGTATTTTATCCTCTTTTATAAAGCAGAAAAGAAAGTTTGTGCTATGT	57575	Db	56554	GTTCCTCAAGTCAGTTTCGTTATCGCGGCTGAGCACACGGTACAGCGCGGTATGAAGCACA	56495
QY	2176	-----	2175	QY	2176	-----	2175
Db	57574	TTGTACTAGTAGTAGCAAAATAGATTTCTTAGTTTAAATCTTTTCCAGTGCAATTTAA	57515	Db	56494	CGGTGAATTTGCTGTGGACCTGGTTCCCTACAGTTCCGCACCCCTCAAGGAATACCTGTC	56435
QY	2176	-----	2175	QY	2176	-----	2175
Db	57514	TATGACTGATTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTGAACTACTNNNNNNNNN	57455	Db	56434	TCATGAACAGGATATGCTGCGTTTCGCATCATGATCTGGCGCACTCTTGGCAGCCGACACC	56375
QY	2176	-----	2175	QY	2176	-----	2175
Db	57454	NNNNNNNNNACAGTAGTTTCATCATGCGCAGTTCGGTACTGATGAACCAATTCATTAAAGA	57395	Db	56374	TTTGACATCGCTCTCCCGTTTAAACAGTCTTTTGATGTATGGGCAACCATCATTCGTGGC	56315
QY	2176	-----	2175	QY	2176	-----	2175
Db	57394	TGATCCCGCGCTGCCGATCTATCCTTGAAGCTGCACGTAAAGCCGGTTTTTTCGGGG	57335	Db	56314	AAATCCAGACTGTATATCGCGACATTTATTGAGCGGTAAATCTTCTGTCGGATGGGG	56255
QY	2176	-----	2175	QY	2176	-----	2175
Db	57334	TATCTGTATAATGCCACCGCTCAAAATGGCTACAGCGTGGGCAAGTGCACCTGGCTGACTA	57275	Db	56254	ATGTTTGTGCTGCTGATGTCAGCATCTTTCTTCAAACAGTTTCCGGAAGGATTTCTCCAG	56195
				QY	2176	-----	2175

Db	56194	CCAGCCGAAGACTATATCCAGACTCCGATATGTTCACTACATCGGTACCCCATTTAGGACC	56135	Db	55120	TGGACCCGAGCCAGGAATATNGAATGACCCCAAGGCCAAGGAAGGAGGACAGAGAGCCCC	55061
Qy	2176	-----	2175	Qy	2359	CAGAGTGGGTGGAGACTGGAGTGCCTGGGACCTTGTGTCAATAGAGAGTCTCCACA	2418
Db	56134	ACCCACAGCCTAACAAAAGGGCATCAGCCTCTTGGAGGCTTCCAGCGCCTCATCTGG	56075	Db	55060	CAGGAGTGGGTGGAGAGTGGAGTGCCTGAGACCTTGTGTCAATAGAGAGTCTCCACA	55001
Qy	2176	-----	2175	Qy	2419	CCAGA-----	2423
Db	56074	AAGTGAACACCTGTAGCATCGACCTGCAGGGGGGGGGCGCTGAGGTCTGCCTCGTG	56015	Db	55000	CCAGATCTCTCCAGATTCTGTGCTCTGTGCTTGTGTCACAGCCCTGCAGTTTAT	54941
Qy	2176	-----	2175	Qy	2424	-----	2423
Db	56014	AAGAAGTGTGTGACTCATACAGGCCTGAATCGGCCCATCATCCAGCCAGAAAGTGA	55955	Db	54940	TTTTCACAGTGCACAGAGAGAGAGAGAGGCTGCATGTGTACCGTGTGTGGCAAGGC	54881
Qy	2176	-----	2175	Qy	2424	-----	2423
Db	55954	GGGAGCCACGGTTGATGAGAGCTTGTGTAGTGGACCAGTTGGTGATTTGNACTTTT	55895	Db	54880	AGGCGCTTGGCTGGGCGAGGGGGGGGGGGCTGCTTCTTTTCCACAGCTTTCTTCCNACAGCA	54821
Qy	2176	-----	2175	Qy	2424	-----	2423
Db	55894	GCTTTGCCAGGAACGCTCTCGGTGTGCGGAAGATGCGTGATCTGATCCTTCAACTCAG	55835	Db	54820	GGCAGTGGGCTCGCGGCTGTGCGGTGGTCCCTTGAGGAGCTTTATTGTTACTGTCAACA	54761
Qy	2176	-----	2175	Qy	2424	-----	2423
Db	55834	CAAAAGTTCGATTTATTCACAAAGCGCGTCCCGTCAAGTCAGCGTAATGCTCTGCCA	55775	Db	54760	TAGTAGTATGTTCCAGGCCAGCCAGAGTGGGCTGCGAGGAGGCTGAGGCCCGCCCT	54701
Qy	2176	-----	2175	Qy	2424	-----	2423
Db	55774	GTGTTACACCAATTACCAATTCTGATTAGAAAACCTCATCGAGCATCAAAATGAACCTG	55715	Db	54700	CTGGGAAGGAGCTGTGGAGGAGAGACAGCCCATGCTGGGCACGGGCCAGACTGGGTCCA	54641
Qy	2176	-----	2175	Qy	2424	-----	2423
Db	55714	CAATTATTTCATATCAGGATTATCAATACCATAATTTTGAAAAGCGTTTCTGTAATGA	55655	Db	54640	AGATCCTGTATGCCACCACCATGATGTCCCTCCAGGCTCTGCCAAAAGGCGGGTGGAGCCT	54581
Qy	2176	-----	2175	Qy	2424	-----	2423
Db	55654	AGGAGAAACTCACCGAGGAGTTCCATAGGATGGCAAGATCCTGTTATCGGTCTCGAT	55595	Db	54580	GGAGCCCCCTGCAGCAGCCAGCCAGGCTGACCATCAGCTCCCGTGGTGTGCTCCAATAGGA	54521
Qy	2176	-----	2175	Qy	2424	-----	2423
Db	55594	TCCGACTCGTCCAACATCAATACAACCTATTAAATTTCCCTCGTCAAAATAGGTTATC	55535	Db	54520	CTTTACAGTCCAGATGCAACTGACAGCTTCTTCCCACTGCAATCCCGCTTTTCCACAC	54461
Qy	2176	-----	2175	Qy	2424	-----	2423
Db	55534	AAGTGAGAAATCACCATGAGTGACGACTGAATCCGGTGAATGGCAAAAGCTTATGCAT	55475	Db	54460	TTGAGTCTGCTTGGCTGTGGGCCAGGCTTCTGGGGTCTTCTGGGGTGGCTTGTGA	54401
Qy	2176	-----	2175	Qy	2424	-----	2423
Db	55474	TTCTTTCCAGACTTGTCTACAGGGCAGCCATTACGCTCGGCATCAAGATCACTCGCATC	55415	Db	54400	TAGAAACAATGCTGAAGCTTCCCGGGAGAGAGCCCGTCGCTGTTGTGAGGCCCAACAGACTTC	54341
Qy	2176	-----	2175	Qy	2424	-----	2423
Db	55414	ACCCAAAGGTAATTCATTGCTGAATCGCGTTTCACGAGACCGAATTCGGGATCGTGTAT	55355	Db	54340	CAGGAAATCAGGGTTTATCATCAGTGTGAGATGGTCCCAAGAGCTCTGGTCAACGA	54281
Qy	2176	-----	2175	Qy	2424	-----	2423
Db	55354	AAAGCCATTTCAACAGGATCGAATCTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	55295	Db	54280	ATCCTCTCTTCCCTGCCCCCTTCAGCAGCTTCCCCCTAGGAACCACTACTGCGAGAGCCCT	54221
Qy	2176	-----	2175	Qy	2424	-----	2423
Db	55294	TAAAGGGCTGGACTGAACAGGATGTCACCCGGGAACCCAGGTTTCGGGCCAAA	55235	Db	54220	CTTTCGAGGAGAGCTCACCCAGGAAGCTCCAGGGACTCCACCTCTTGCCCTTGCTATTG	54161
Qy	2179	TACTACAGCTGGCCACAGCTGGGCAAGGCTCTCCGTGGAGTGGAGTGGAGTCCCTGGA	2238	Qy	2424	-----	2423
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Qy	2299	TGGACCCGAGCCAGGAATACCAATGACCAAGGCCAAGGAGGAGGAGGAGGAGGAGGAGG	2358	Qy	2424	-----	2423
				Db	54040	GGCCCCCTGCACTTTCAGCCCCATGGATGTGGATACACAGGCGCTGCTGCTTCCAGAAAGG	53981



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RESULT 8

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AC004241
LOCUS
DEFINITION Homo sapiens, 155147 bp DNA linear HTG 14-MAR-1998
AC004241
ACCESSION
VERSION AC004241 GI:2960506
KEYWORDS HTG; HTGS_PHASE1.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;
Primates; Catarrhini; Hominoidea; Homo.
1 (bases 1 to 155147)
Muzny,D., Arenson,A.D., Brundage,E., Carvelli,K., Chen,E., Di,W.,
Ding,Y., Dugan,S., Durbin,J., Forcum,J., Ganesh,R., Garcia,C.,
Goodman,M., Gorrell,J.H., Haywood,M., Jackson,L., Kampal,R.,
Karpman,S., Leal,B., Li,Y., Liu,W., Logan,O., Lu,J., Ly,T.,
Martinez,C., Oswal,G., Perez,L., Rashid,N.D., Rowland,K.,
Savage,L., Scherer,S.S., Shen,H., Timms,K.M., Todd,J., Vo,Q.,
Worley,K.C., Yu,W., Chinault,C., Nelson,D. and Gibbs,R.A.
Direct Submission
Unpublished
2 (bases 1 to 155147)
Worley,K.C.
Direct Submission
Submitted (28-FEB-1998) Molecular and Human Genetics, Baylor
College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
[WARNING] On Mar 21, 1998 this sequence was replaced by a newer
version gi:2980958.
On Mar 14, 1998 this sequence version replaced gi:2943840.
* NOTE: This is a 'working draft' sequence. It currently
* consists of 14 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence

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\* as soon as it is available and the accession number will  
\* be preserved.

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1 37328: contig of 37328 bp in length
37329 37348: gap of unknown length
37349 57852: contig of 20504 bp in length
57853 57872: gap of unknown length
57873 75790: contig of 17918 bp in length
75791 75810: gap of unknown length
75811 93408: contig of 17598 bp in length
93409 93428: gap of unknown length
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108987 123255: contig of 14269 bp in length
123256 132275: gap of unknown length
132276 136208: contig of 12933 bp in length
136209 136228: gap of unknown length
136229 144543: contig of 8315 bp in length
144544 144563: gap of unknown length
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147964 147983: gap of unknown length
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BASE COUNT    45360 a 35208 c 33813 g 40497 t    269 others

Query Match      94.5%  Score 2299.8;  DB 5;  Length 155147;
Best Local Similarity 16.2%;  Pred. No. 2.8e-125;
Matches 2431;  Conservative 0;  Mismatches 2;  Indels 12586;  Gaps 13;

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DB 508 GGGGAAAGGACAGGAGGATTCACACTTGCAGGTTAGCAGCTGTGTGGCTTTGGGCAT 567
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QY 781 TGAGCTCAGGTGAATGTGCAAGCAGAGCCCTCTGTGGTGTGAATGCTGTGTGGCGCC 840
DB 868 TGAGCTCAGGTGAATGTGCAAGCAGAGCCCTCTGTGGTGTGAATGCTGTGTGGCGCC 927
QY 841 GTGCTCTGTGACACAGGAGACCTTCAATCCCTCCCTCCACGGTCTCTCTCATGTCCT 900
DB 928 GTGCTCTGTGACACAGGAGACCTTCAATCCCTCCCTCCACGGTCTCTCTCATGTCCT 987
QY 901 CCAGGCTTATTTCTGTTCTCTCTCTCCAGGCGCGGAGTGGCTGTGTGGCTGCC 960
DB 988 CCAGGCTTATTTCTGTTCTCTCTCTCCAGGCGCGGAGTGGCTGTGTGGCTGCC 1047
QY 961 CAACAGGAGAGCCCTTCTTGCAGCAGCTGTGCCATCCAAAGTTGGGGATAA- 1014
DB 1048 CAACAGGAGAGCCCTTCTTGCAGCAGCTGTGCCATCCAAAGTTGGGGATAAAGTTG 1107
QY 1015 ----- 1014
DB 1108 GTGCTCTGCCGCTGGGCACAGCCGACATCTGCACCTGCTGTCTCTGCTCTCTTG 1167
QY 1015 ----- 1014
DB 1168 TCCTGCTGTCGTCACCTTTGACCTCGGTGTGCCCTGGCCAAAGTGGCAGCGTGTACTCCT 1227
QY 1015 ----- 1014
DB 1228 CAGGGTCTGTGTTCCAGGCTGCTGGGTAGATCTGCCCTCTACCTGCTCTTTTGTGCTCA 1287
QY 1015 ----- 1014
DB 1288 GGGCTTCCCACTGCAGCTCAGCCTCTTGGGATCCCTCCACCATTTACTGCAATAGCC 1347
QY 1015 ----- 1014
DB 1348 GCCTCTCCCTCTGGGTGGAGATCAGGAGCGCCCTTCCACAGCTCAGTCTGTGCTCTCT 1407
QY 1015 -----AGTCCCTATGACATCTGCCGGCCAGACCACTCAGTTGACCTGCAGCTGCTG 1070
DB 1408 CTTTCACTTCCCTATGACATCTGCCGGCCAGACCACTCAGTTGACCTGCAGCTGCTG 1467
QY 1071 TGACAGCTCCCTGTGAGAGAGTGTATGCGGTTGGCCAGGAGGATGGCTGGACCAAGG 1130
DB 1468 TGACAGCTCCCTGTGAGAGAGTGTATGCGGCTGGCCAGGAGGATGGCTGGACCAAGG 1527
QY 1131 GGCAGGTGCTGTGGAAGGTCAATTCTGCAGT----- 1162
DB 1528 GGCAGGTGCTGTGGAAGGTCAATTCTGCAGGTGGTGTGAGTTGTGCTCCCTGGATAGACCCCA 1587
QY 1163 ----- 1162
DB 1588 AGGAGGTGGCCCCCTCGGATCTGGCCCCAGGTTCCCCCAGTCAAGATCATTTGTCATCAT 1647
QY 1163 ----- 1162
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